

Mason A Porter

List of Publications by Citations

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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 | Community structure in time-dependent, multiscale, and multiplex networks. <i>Science</i> , 2010 , 328, 876-8 | 33.3 | 1249 |
| 162 | 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 |
| 161 | Mathematics. Critical truths about power laws. <i>Science</i> , 2012 , 335, 665-6 | 33.3 | 387 |
| 160 | Mathematical Formulation of Multilayer Networks. <i>Physical Review X</i> , 2013 , 3, | 9.1 | 376 |
| 159 | The physics of spreading processes in multilayer networks. <i>Nature Physics</i> , 2016 , 12, 901-906 | 16.2 | 326 |
| 158 | Robust detection of dynamic community structure in networks. <i>Chaos</i> , 2013 , 23, 013142 | 3.3 | 308 |
| 157 | Social structure of Facebook networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 4165-4180 | 3.3 | 288 |
| 156 | Random walks and diffusion on networks. <i>Physics Reports</i> , 2017 , 716-717, 1-58 | 27.7 | 272 |
| 155 | Comparing Community Structure to Characteristics in Online Collegiate Social Networks. <i>SIAM Review</i> , 2011 , 53, 526-543 | 7.4 | 252 |
| 154 | The multilayer nature of ecological networks. <i>Nature Ecology and Evolution</i> , 2017 , 1, 101 | 12.3 | 249 |
| 153 | Task-based core-periphery organization of human brain dynamics. <i>PLoS Computational Biology</i> , 2013 , 9, e1003171 | 5 | 226 |
| 152 | Core-Periphery Structure in Networks. <i>SIAM Journal on Applied Mathematics</i> , 2014 , 74, 167-190 | 1.8 | 201 |
| 151 | Discrete breathers in one-dimensional diatomic granular crystals. <i>Physical Review Letters</i> , 2010 , 104, 244302 | 7.4 | 192 |
| 150 | MuxViz: a tool for multilayer analysis and visualization of networks. <i>Journal of Complex Networks</i> , 2015 , 3, 159-176 | 1.7 | 191 |
| 149 | Differential recruitment of the sensorimotor putamen and frontoparietal cortex during motor chunking in humans. <i>Neuron</i> , 2012 , 74, 936-46 | 13.9 | 190 |
| 148 | A roadmap for the computation of persistent homology. <i>EPJ Data Science</i> , 2017 , 6, 17 | 3.4 | 188 |
| 147 | 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 |

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| 146 | Limit order books. <i>Quantitative Finance</i> , 2013 , 13, 1709-1742 | 1.6 | 126 |
| 145 | Dynamical Systems on Networks. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2016 , | 0.5 | 114 |
| 144 | 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 |
| 143 | Dissipative solitary waves in granular crystals. <i>Physical Review Letters</i> , 2009 , 102, 024102 | 7.4 | 104 |
| 142 | Community structure in Congressional cosponsorship networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 1705-1712 | 3.3 | 101 |
| 141 | Revisiting date and party hubs: novel approaches to role assignment in protein interaction networks. <i>PLoS Computational Biology</i> , 2010 , 6, e1000817 | 5 | 100 |
| 140 | Optimal Design of Composite Granular Protectors. <i>Mechanics of Advanced Materials and Structures</i> , 2009 , 17, 1-19 | 1.8 | 100 |
| 139 | Accuracy of mean-field theory for dynamics on real-world networks. <i>Physical Review E</i> , 2012 , 85, 026106 | 2.4 | 97 |
| 138 | Highly nonlinear solitary waves in heterogeneous periodic granular media. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 666-676 | 3.3 | 95 |
| 137 | The unreasonable effectiveness of tree-based theory for networks with clustering. <i>Physical Review E</i> , 2011 , 83, 036112 | 2.4 | 95 |
| 136 | Highly nonlinear solitary waves in periodic dimer granular chains. <i>Physical Review E</i> , 2008 , 77, 015601 | 2.4 | 92 |
| 135 | Granular crystals: Nonlinear dynamics meets materials engineering. <i>Physics Today</i> , 2015 , 68, 44-50 | 0.9 | 84 |
| 134 | Multi-stage complex contagions. <i>Chaos</i> , 2013 , 23, 013124 | 3.3 | 79 |
| 133 | Influence of network topology on sound propagation in granular materials. <i>Physical Review E</i> , 2012 , 86, 041306 | 2.4 | 79 |
| 132 | EIGENVECTOR-BASED CENTRALITY MEASURES FOR TEMPORAL NETWORKS. <i>Multiscale Modeling and Simulation</i> , 2017 , 15, 537-574 | 1.8 | 78 |
| 131 | Localized breathing modes in granular crystals with defects. <i>Physical Review E</i> , 2009 , 80, 066601 | 2.4 | 76 |
| 130 | Extraction of force-chain network architecture in granular materials using community detection. <i>Soft Matter</i> , 2015 , 11, 2731-44 | 3.6 | 75 |
| 129 | Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. <i>Physical Review E</i> , 2010 , 82, 056604 | 2.4 | 71 |

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| 128 | Core-Periphery Structure in Networks (Revisited). <i>SIAM Review</i> , 2017 , 59, 619-646 | 7.4 | 70 |
| 127 | Taxonomies of networks from community structure. <i>Physical Review E</i> , 2012 , 86, 036104-36104 | 2.4 | 69 |
| 126 | The use of multilayer network analysis in animal behaviour. <i>Animal Behaviour</i> , 2019 , 149, 7-22 | 2.8 | 67 |
| 125 | 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 |
| 124 | Network analysis of particles and grains. <i>Journal of Complex Networks</i> , 2018 , 6, 485-565 | 1.7 | 66 |
| 123 | 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 |
| 122 | Generalized master equations for non-Poisson dynamics on networks. <i>Physical Review E</i> , 2012 , 86, 046102 | 2.4 | 60 |
| 121 | Cross-linked structure of network evolution. <i>Chaos</i> , 2014 , 24, 013112 | 3.3 | 58 |
| 120 | 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 |
| 119 | Topological data analysis of contagion maps for examining spreading processes on networks. <i>Nature Communications</i> , 2015 , 6, 7723 | 17.4 | 56 |
| 118 | Random Walker Ranking for NCAA Division I-A Football. <i>American Mathematical Monthly</i> , 2007 , 114, 761-777 | 3.7 | 52 |
| 117 | Persistent homology of time-dependent functional networks constructed from coupled time series. <i>Chaos</i> , 2017 , 27, 047410 | 3.3 | 51 |
| 116 | Nonlinear coherent structures in granular crystals. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 413003 | 3.8 | 49 |
| 115 | Dynamic network centrality summarizes learning in the human brain. <i>Journal of Complex Networks</i> , 2013 , 1, 83-92 | 1.7 | 48 |
| 114 | Fermi, Pasta, Ulam and the Birth of Experimental Mathematics. <i>American Scientist</i> , 2009 , 97, 214 | 2.7 | 48 |
| 113 | Null models for community detection in spatially embedded, temporal networks. <i>Journal of Complex Networks</i> , 2016 , 4, 363-406 | 1.7 | 47 |
| 112 | Nonlinear waves in disordered diatomic granular chains. <i>Physical Review E</i> , 2010 , 82, 021301 | 2.4 | 45 |
| 111 | Can Multilayer Networks Advance Animal Behavior Research?. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 376-378 | 10.9 | 44 |

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| 110 | Matter-wave solitons with a periodic, piecewise-constant scattering length. <i>Physical Review A</i> , 2008 , 78, | 2.6 | 43 |
| 109 | Modulated amplitude waves in collisionally inhomogeneous Bose-Einstein condensates. <i>Physica D: Nonlinear Phenomena</i> , 2007 , 229, 104-115 | 3.3 | 41 |
| 108 | Lost in transportation: Information measures and cognitive limits in multilayer navigation. <i>Science Advances</i> , 2016 , 2, e1500445 | 14.3 | 39 |
| 107 | Motor primitives in space and time via targeted gain modulation in cortical networks. <i>Nature Neuroscience</i> , 2018 , 21, 1774-1783 | 25.5 | 39 |
| 106 | Community structure in the United Nations General Assembly. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 343-361 | 3.3 | 38 |
| 105 | Communities in multislice voting networks. <i>Chaos</i> , 2010 , 20, 041108 | 3.3 | 37 |
| 104 | Dynamical clustering of exchange rates. <i>Quantitative Finance</i> , 2012 , 12, 1493-1520 | 1.6 | 36 |
| 103 | Nonlinear lattice dynamics of Bose-Einstein condensates. <i>Chaos</i> , 2005 , 15, 15115 | 3.3 | 36 |
| 102 | Frequency-based brain networks: From a multiplex framework to a full multilayer description. <i>Network Neuroscience</i> , 2018 , 2, 418-441 | 5.6 | 35 |
| 101 | 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 |
| 100 | Modulational instability in a layered Kerr medium: theory and experiment. <i>Physical Review Letters</i> , 2006 , 97, 234101 | 7.4 | 33 |
| 99 | Density-based and transport-based core-periphery structures in networks. <i>Physical Review E</i> , 2014 , 89, 032810 | 2.4 | 32 |
| 98 | A local perspective on community structure in multilayer networks. <i>Network Science</i> , 2017 , 5, 144-163 | 2.9 | 31 |
| 97 | The Extraordinary SVD. <i>American Mathematical Monthly</i> , 2012 , 119, 838 | 0.3 | 28 |
| 96 | Dynamics on modular networks with heterogeneous correlations. <i>Chaos</i> , 2014 , 24, 023106 | 3.3 | 27 |
| 95 | 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 |
| 94 | 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 |
| 93 | Prey Switching with a Linear Preference Trade-Off. <i>SIAM Journal on Applied Dynamical Systems</i> , 2014 , 13, 658-682 | 2.8 | 25 |

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| 92 | 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 |
| 91 | Mutually-antagonistic interactions in baseball networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 1131-1141 | 3.3 | 25 |
| 90 | Small-world network. <i>Scholarpedia Journal</i> , 2012 , 7, 1739 | 1.5 | 25 |
| 89 | Neither global nor local: Heterogeneous connectivity in spatial network structures of world migration. <i>Social Networks</i> , 2018 , 53, 4-19 | 3.9 | 25 |
| 88 | Numerical methods for the computation of the confluent and Gauss hypergeometric functions. <i>Numerical Algorithms</i> , 2017 , 74, 821-866 | 2.1 | 24 |
| 87 | Superdiffusive transport and energy localization in disordered granular crystals. <i>Physical Review E</i> , 2016 , 93, 022902 | 2.4 | 23 |
| 86 | Mathematical models of bipolar disorder. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 2897-2908 | 3.7 | 22 |
| 85 | Opinion formation and distribution in a bounded-confidence model on various networks. <i>Physical Review E</i> , 2018 , 97, 022312 | 2.4 | 21 |
| 84 | Estimating interevent time distributions from finite observation periods in communication networks. <i>Physical Review E</i> , 2015 , 92, 052813 | 2.4 | 20 |
| 83 | Competition for popularity in bipartite networks. <i>Chaos</i> , 2010 , 20, 043101 | 3.3 | 20 |
| 82 | Modulated amplitude waves in Bose-Einstein condensates. <i>Physical Review E</i> , 2004 , 69, 047201 | 2.4 | 20 |
| 81 | Topological data analysis of continuum percolation with disks. <i>Physical Review E</i> , 2018 , 98, 012318 | 2.4 | 18 |
| 80 | A mathematical model for the dynamics and synchronization of cows. <i>Physica D: Nonlinear Phenomena</i> , 2011 , 240, 1497-1509 | 3.3 | 18 |
| 79 | Bose-Einstein Condensates in Superlattices. <i>SIAM Journal on Applied Dynamical Systems</i> , 2005 , 4, 783-807.8 | 2.8 | 18 |
| 78 | Direct measurement of superdiffusive energy transport in disordered granular chains. <i>Nature Communications</i> , 2018 , 9, 640 | 17.4 | 16 |
| 77 | Scattering of waves by impurities in precompressed granular chains. <i>Physical Review E</i> , 2016 , 93, 052224.2.4 | 2.4 | 16 |
| 76 | Nanoptera in a Period-2 Toda Chain. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018 , 17, 1182-1212 | 2.8 | 16 |
| 75 | Quasiperiodic Dynamics in Bose-Einstein Condensates in Periodic Lattices and Superlattices. <i>Journal of Nonlinear Science</i> , 2007 , 17, 59-83 | 2.8 | 16 |

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| 74 | 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 |
| 73 | A perturbative analysis of modulated amplitude waves in Bose-Einstein condensates. <i>Chaos</i> , 2004 , 14, 739-55 | 3.3 | 14 |
| 72 | 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 |
| 71 | Social network analysis for social neuroscientists. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 883-901 | 4 | 13 |
| 70 | Synergistic effects in threshold models on networks. <i>Chaos</i> , 2018 , 28, 013115 | 3.3 | 13 |
| 69 | 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 |
| 68 | Multivariate Spatiotemporal Hawkes Processes and Network Reconstruction. <i>SIAM Journal on Mathematics of Data Science</i> , 2019 , 1, 356-382 | 3.1 | 13 |
| 67 | Mathematical genealogy and department prestige. <i>Chaos</i> , 2011 , 21, 041104 | 3.3 | 13 |
| 66 | What Is... a Multilayer Network?. <i>Notices of the American Mathematical Society</i> , 2018 , 65, 1 | 1.5 | 13 |
| 65 | What are essential concepts about networks?. <i>Journal of Complex Networks</i> , 2016 , 4, 457-474 | 1.7 | 12 |
| 64 | Nonlinear excitations in magnetic lattices with long-range interactions. <i>New Journal of Physics</i> , 2019 , 21, 063032 | 2.9 | 12 |
| 63 | A framework for the construction of generative models for mesoscale structure in multilayer networks. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 11 |
| 62 | 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 |
| 61 | Nonlinearity + Networks: A 2020 Vision. <i>Advances in Dynamics, Patterns, Cognition</i> , 2020 , 131-159 | 0.7 | 11 |
| 60 | Complex contagions with timers. <i>Chaos</i> , 2018 , 28, 033101 | 3.3 | 10 |
| 59 | Quasiperiodic granular chains and Hofstadter butterflies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376, | 3 | 10 |
| 58 | 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 |
| 57 | Layer Communities in Multiplex Networks. <i>Journal of Statistical Physics</i> , 2018 , 173, 1286-1302 | 1.5 | 9 |

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| 56 | Commentary: Teach network science to teenagers. <i>Network Science</i> , 2013 , 1, 226-247 | 2.9 | 9 |
| 55 | 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 |
| 54 | Isomorphisms in Multilayer Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2018 , 5, 198-211 | 4.9 | 8 |
| 53 | Nonadiabatic dynamics in semiquantal physics. <i>Reports on Progress in Physics</i> , 2001 , 64, 1165-1189 | 14.4 | 8 |
| 52 | Mesoscale analyses of fungal networks as an approach for quantifying phenotypic traits. <i>Journal of Complex Networks</i> , 2016 , cnv034 | 1.7 | 8 |
| 51 | Persistent Homology of Geospatial Data: A Case Study with Voting. <i>SIAM Review</i> , 2021 , 63, 67-99 | 7.4 | 8 |
| 50 | Matchmaker, Matchmaker, Make Me a Match: Migration of Populations via Marriages in the Past. <i>Physical Review X</i> , 2014 , 4, | 9.1 | 7 |
| 49 | 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 |
| 48 | Customer mobility and congestion in supermarkets. <i>Physical Review E</i> , 2019 , 100, 062304 | 2.4 | 7 |
| 47 | Tunable Eigenvector-Based Centralities for Multiplex and Temporal Networks. <i>Multiscale Modeling and Simulation</i> , 2021 , 19, 113-147 | 1.8 | 7 |
| 46 | Dark solitary waves in a class of collisionally inhomogeneous Bose-Einstein condensates. <i>Physical Review A</i> , 2013 , 87, | 2.6 | 6 |
| 45 | Averaging of nonlinearity management with dissipation. <i>Physical Review A</i> , 2008 , 78, | 2.6 | 5 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Dominance, sharing, and assessment in an iterated Hawk-Dove game. <i>Journal of Theoretical Biology</i> , 2020 , 493, 110101 | 2.3 | 5 |
| 40 | Nonlinear localized modes in two-dimensional hexagonally-packed magnetic lattices. <i>New Journal of Physics</i> , 2021 , 23, 043008 | 2.9 | 5 |
| 39 | Quasi-centralized limit order books. <i>Quantitative Finance</i> , 2017 , 17, 831-853 | 1.6 | 4 |

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| 38 | Effect of antipsychotics on community structure in functional brain networks. <i>Journal of Complex Networks</i> , 2019 , 7, 932-960 | 1.7 | 4 |
| 37 | Multislice Modularity Optimization in Community Detection and Image Segmentation 2012 , | | 4 |
| 36 | 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 |
| 35 | Forecasting Elections Using Compartmental Models of Infection. <i>SIAM Review</i> , 2020 , 62, 837-865 | 7.4 | 4 |
| 34 | 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 |
| 33 | Modeling the lowest-cost splitting of a herd of cows by optimizing a cost function. <i>Chaos</i> , 2017 , 27, 063114 | 3.4 | 3 |
| 32 | A Bounded-Confidence Model of Opinion Dynamics on Hypergraphs. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022 , 21, 1-32 | 2.8 | 3 |
| 31 | Topological data analysis of task-based fMRI data from experiments on schizophrenia. <i>Journal of Physics Complexity</i> , 2021 , 2, 035006 | 1.8 | 3 |
| 30 | Random-graph models and characterization of granular networks. <i>Journal of Complex Networks</i> , 2021 , 8, | 1.7 | 3 |
| 29 | 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 |
| 28 | Fitting in and breaking up: A nonlinear version of coevolving voter models. <i>Physical Review E</i> , 2020 , 101, 062303 | 2.4 | 2 |
| 27 | Convergence time towards periodic orbits in discrete dynamical systems. <i>PLoS ONE</i> , 2014 , 9, e92652 | 3.7 | 2 |
| 26 | Energy absorption and dissipation in quantum systems. <i>Physica D: Nonlinear Phenomena</i> , 2004 , 195, 398-402 | 3.9 | 2 |
| 25 | Chaos on the Quantum Scale. <i>American Scientist</i> , 2001 , 89, 532 | 2.7 | 2 |
| 24 | 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 |
| 23 | Opinion dynamics on tie-decay networks. <i>Physical Review Research</i> , 2021 , 3, | 3.9 | 2 |
| 22 | Stochastic Block Models are a Discrete Surface Tension. <i>Journal of Nonlinear Science</i> , 2020 , 30, 2429-2462 | 2.8 | 2 |
| 21 | Models of continuous-time networks with tie decay, diffusion, and convection. <i>Physical Review E</i> , 2021 , 103, 022304 | 2.4 | 2 |

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| 20 | Female respond to song-amplitude modulations. <i>Biology Open</i> , 2018 , 7, | 2.2 | 2 |
| 19 | In-degree centrality in a social network is linked to coordinated neural activity.. <i>Nature Communications</i> , 2022 , 13, 1118 | 17.4 | 2 |
| 18 | Spatial strength centrality and the effect of spatial embeddings on network architecture. <i>Physical Review E</i> , 2020 , 101, 062305 | 2.4 | 1 |
| 17 | Geosocial Graph-Based Community Detection 2012 , | | 1 |
| 16 | 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 |
| 15 | Prime Quasientropy and Quasichaos. <i>International Journal of Theoretical Physics</i> , 2002 , 41, 1389-1395 | 1.1 | 1 |
| 14 | 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 |
| 13 | Classical and Quantum Random-Walk Centrality Measures in Multilayer Networks. <i>SIAM Journal on Applied Mathematics</i> , 2021 , 81, 2704-2724 | 1.8 | 1 |
| 12 | Inference of edge correlations in multilayer networks. <i>Physical Review E</i> , 2020 , 102, 062307 | 2.4 | 1 |
| 11 | Motifs for Processes on Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2021 , 20, 2516-2557 | 2.8 | 1 |
| 10 | Pull out all the stops: Textual analysis via punctuation sequences. <i>European Journal of Applied Mathematics</i> , 2020 , 1-37 | 1 | 1 |
| 9 | 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 |
| 8 | Heterogeneous, weakly coupled map lattices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 36, 549-563 | 3.7 | 1 |
| 7 | Topological Data Analysis of Spatial Systems. <i>Understanding Complex Systems</i> , 2022 , 389-399 | 0.4 | 1 |
| 6 | Role detection in bicycle-sharing networks using multilayer stochastic block models. <i>Network Science</i> , 2022 , 10, 46-81 | 2.9 | 0 |
| 5 | Networks of necessity: Simulating COVID-19 mitigation strategies for disabled people and their caregivers.. <i>PLoS Computational Biology</i> , 2022 , 18, e1010042 | 5 | 0 |
| 4 | A Gal kin approach to electronic near-degeneracies in molecular systems. <i>Physica D: Nonlinear Phenomena</i> , 2002 , 167, 218-247 | 3.3 | |
| 3 | Remarks on whale cultures from a complex systems perspective. <i>Behavioral and Brain Sciences</i> , 2001 , 24, 344-344 | 0.9 | |

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| 2 | Counterparty Credit Limits: The Impact of a Risk-Mitigation Measure on Everyday Trading. <i>Applied Mathematical Finance</i> , 2020 , 27, 520-548 | 0.9 |
| 1 | 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 |