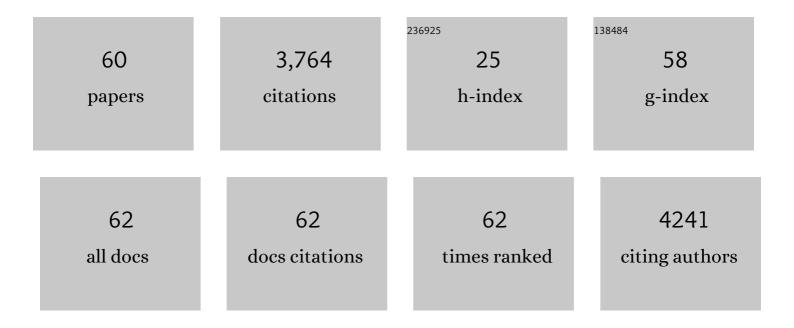
List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Comparing transmission potential networks based on social network surveys, close contacts and<br>environmental overlap in rural Madagascar. Journal of the Royal Society Interface, 2022, 19, 20210690. | 3.4  | 7         |
| 2  | A bipartite graph-based expected networks approach identifies DDR genes not associated with TMB yet predictive of immune checkpoint blockade response. Cell Reports Medicine, 2022, 3, 100602.          | 6.5  | 1         |
| 3  | A Simultaneous Feature Selection and Compositional Association Test for Detecting Sparse<br>Associations in High-Dimensional Metagenomic Data. Frontiers in Microbiology, 2022, 13, 837396.             | 3.5  | 4         |
| 4  | Positive psychological states and stress responses in caregivers of adults receiving an allogeneic bone marrow transplant: A study protocol. Journal of Advanced Nursing, 2021, 77, 2073-2084.          | 3.3  | 1         |
| 5  | Accrual of functional redundancy along the lifespan and its effects on cognition. NeuroImage, 2021, 229, 117737.  | 4.2  | 17        |
| 6  | Synchronization of coupled Kuramoto oscillators under resource constraints. Physical Review E, 2021, 104, 014211.   | 2.1  | 5         |
| 7  | Optimizing Emergency Stroke Transport Strategies Using Physiological Models. Stroke, 2021, 52, 4010-4020.   | 2.0  | 2         |
| 8  | The association between hippocampal volume and memory in pathological aging is mediated by functional redundancy. Neurobiology of Aging, 2021, 108, 179-188.  | 3.1  | 11        |
| 9  | Lower functional hippocampal redundancy in mild cognitive impairment. Translational Psychiatry, 2021, 11, 61.   | 4.8  | 17        |
| 10 | Network Interconnectivity and Community Detection in HIV/Syphilis Contact Networks Among Men<br>Who Have Sex With Men. Sexually Transmitted Diseases, 2020, 47, 726-732.                                | 1.7  | 3         |
| 11 | The emergence of a functionally flexible brain during early infancy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23904-23913.                           | 7.1  | 36        |
| 12 | Dynamics of social network emergence explain network evolution. Scientific Reports, 2020, 10, 21876.  | 3.3  | 2         |
| 13 | Fecal IgA, Antigen Absorption, and Gut Microbiome Composition Are Associated With Food Antigen Sensitization in Genetically Susceptible Mice. Frontiers in Immunology, 2020, 11, 599637.                | 4.8  | 20        |
| 14 | Map equation with metadata: Varying the role of attributes in community detection. Physical Review E, 2019, 100, 022301.  | 2.1  | 12        |
| 15 | EndNote: Feature-based classification of networks. Network Science, 2019, 7, 438-444.   | 1.0  | 10        |
| 16 | Social clustering in epidemic spread on coevolving networks. Physical Review E, 2019, 99, 062301.   | 2.1  | 11        |
| 17 | Infectivity enhances prediction of viral cascades in Twitter. PLoS ONE, 2019, 14, e0214453.   | 2.5  | 2         |
| 18 | Emotion semantics show both cultural variation and universal structure. Science, 2019, 366, 1517-1522.  | 12.6 | 177       |

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|----|---|------|-----------|
| 19 | Concurrency and reachability in treelike temporal networks. Physical Review E, 2019, 100, 062305.   | 2.1  | 7         |
| 20 | Assessing the robustness of cluster solutions obtained from sparse count matrices Psychological Methods, 2019, 24, 675-689.                                   | 3.5  | 12        |
| 21 | Metabolomic networks connect host-microbiome processes to human Clostridioides difficile infections. Journal of Clinical Investigation, 2019, 129, 3792-3806. | 8.2  | 70        |
| 22 | Evolutionary prisoner's dilemma games coevolving on adaptive networks. Journal of Complex<br>Networks, 2018, 6, 1-23.   | 1.8  | 14        |
| 23 | Epidemic spreading in localized environments with recurrent mobility patterns. Physical Review E, 2018, 97, 052302.   | 2.1  | 36        |
| 24 | Network-Ensemble Comparisons with Stochastic Rewiring and Von Neumann Entropy. SIAM Journal on<br>Applied Mathematics, 2018, 78, 897-920.                     | 1.8  | 6         |
| 25 | Rigid Graph Compression: Motif-Based Rigidity Analysis for Disordered Fiber Networks. Multiscale<br>Modeling and Simulation, 2018, 16, 1283-1304.             | 1.6  | 3         |
| 26 | Functional classification of long non-coding RNAs by k-mer content. Nature Genetics, 2018, 50, 1474-1482.   | 21.4 | 198       |
| 27 | Compressing Networks with Super Nodes. Scientific Reports, 2018, 8, 10892.  | 3.3  | 22        |
| 28 | A local perspective on community structure in multilayer networks. Network Science, 2017, 5, 144-163.   | 1.0  | 42        |
| 29 | Eigenvector-Based Centrality Measures for Temporal Networks. Multiscale Modeling and Simulation, 2017, 15, 537-574.   | 1.6  | 120       |
| 30 | Scientific Training in the Era of Big Data: A New Pedagogy for Graduate Education. Big Data, 2017, 5, 12-18.  | 3.4  | 14        |
| 31 | Super-Resolution Community Detection for Layer-Aggregated Multilayer Networks. Physical Review X, 2017, 7, .  | 8.9  | 16        |
| 32 | The scaling structure of the global road network. Royal Society Open Science, 2017, 4, 170590.  | 2.4  | 26        |
| 33 | Erratum to "Evolutionary prisoner's dilemma games coevolving on adaptive network― Journal of<br>Complex Networks, 2017, 5, 964-964.                           | 1.8  | 1         |
| 34 | Spatiotemporal patterns and trends of Indian monsoonal rainfall extremes. Geophysical Research<br>Letters, 2016, 43, 1710-1717.                               | 4.0  | 71        |
| 35 | Transitivity reinforcement in the coevolving voter model. Chaos, 2016, 26, 123112.  | 2.5  | 12        |
| 36 | Clustering Network Layers with the Strata Multilayer Stochastic Block Model. IEEE Transactions on<br>Network Science and Engineering, 2016, 3, 95-105.        | 6.4  | 90        |

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|----|--|------|-----------|
| 37 | Enhanced Detectability of Community Structure in Multilayer Networks through Layer Aggregation.<br>Physical Review Letters, 2016, 116, 228301.   | 7.8  | 59        |
| 38 | Climate shocks and migration: an agent-based modeling approach. Population and Environment, 2016, 38, 47-71.   | 3.0  | 50        |
| 39 | Modeling of Virion Collisions in Cervicovaginal Mucus Reveals Limits on Agglutination as the<br>Protective Mechanism of Secretory Immunoglobulin A. PLoS ONE, 2015, 10, e0131351.                | 2.5  | 13        |
| 40 | Think locally, act locally: Detection of small, medium-sized, and large communities in large networks.<br>Physical Review E, 2015, 91, 012821.   | 2.1  | 88        |
| 41 | Topological data analysis of contagion maps for examining spreading processes on networks. Nature<br>Communications, 2015, 6, 7723.  | 12.8 | 90        |
| 42 | Network Analysis Reveals Sex- and Antibiotic Resistance-Associated Antivirulence Targets in Clinical<br>Uropathogens. ACS Infectious Diseases, 2015, 1, 523-532.                                 | 3.8  | 17        |
| 43 | Kantian fractionalization predicts the conflict propensity of the international system. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11812-11816. | 7.1  | 42        |
| 44 | Modeling Neutralization Kinetics of HIV by Broadly Neutralizing Monoclonal Antibodies in Genital<br>Secretions Coating the Cervicovaginal Mucosa. PLoS ONE, 2014, 9, e100598.                    | 2.5  | 27        |
| 45 | Resolving Structural Variability in Network Models and the Brain. PLoS Computational Biology, 2014, 10, e1003491.  | 3.2  | 85        |
| 46 | Dynamics on modular networks with heterogeneous correlations. Chaos, 2014, 24, 023106.   | 2.5  | 30        |
| 47 | Fluctuation of similarity to detect transitions between distinct dynamical regimes in short time series. Physical Review E, 2014, 89, 062908.  | 2.1  | 9         |
| 48 | Nonaxisymmetric high-aspect-ratio ellipsoids under shear: Lowest-order correction for finite aspect ratios. Physical Review E, 2014, 90, 013005.   | 2.1  | 2         |
| 49 | Cross-linked structure of network evolution. Chaos, 2014, 24, 013112.  | 2.5  | 68        |
| 50 | Transient Antibody-Mucin Interactions Produce a Dynamic Molecular Shield against Viral Invasion.<br>Biophysical Journal, 2014, 106, 2028-2036.   | 0.5  | 49        |
| 51 | Role of social environment and social clustering in spread of opinions in coevolving networks.<br>Chaos, 2013, 23, 043123.   | 2.5  | 15        |
| 52 | Portrait of Political Party Polarization. Network Science, 2013, 1, 119-121.   | 1.0  | 65        |
| 53 | Multiopinion coevolving voter model with infinitely many phase transitions. Physical Review E, 2013, 88, 062818.   | 2.1  | 16        |
| 54 | Taxonomies of networks from community structure. Physical Review E, 2012, 86, 036104-36104.  | 2.1  | 79        |

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|----|---|------|-----------|
| 55 | Dynamical clustering of exchange rates. Quantitative Finance, 2012, 12, 1493-1520.  | 1.7  | 50        |
| 56 | A new method for simulating rigid body motion in incompressible twoâ€phase flow. International<br>Journal for Numerical Methods in Fluids, 2011, 67, 713-732. | 1.6  | 21        |
| 57 | Community Structure in Time-Dependent, Multiscale, and Multiplex Networks. Science, 2010, 328, 876-878.   | 12.6 | 1,655     |
| 58 | Diffusion-induced bias in near-wall velocimetry. Journal of Fluid Mechanics, 2007, 577, 443-456.  | 3.4  | 46        |
| 59 | Random Walker Ranking for NCAA Division I-A Football. American Mathematical Monthly, 2007, 114, 761-777.  | 0.3  | 63        |
| 60 | That sinking feeling. Nature, 2001, 409, 569-571.   | 27.8 | 24        |