

Yamir Moreno

List of Publications by Year in descending order

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Version: 2024-02-01

252
papers

32,244
citations

13068

68
h-index

4203

174
g-index

275
all docs

275
docs citations

275
times ranked

17350
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Modelling how social network algorithms can influence opinion polarization. Information Sciences, 2022, 588, 265-278. | 4.0 | 22 |
| 2 | Indirect influence in social networks as an induced percolation phenomenon. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 4 |
| 3 | Epidemic spreading in populations of mobile agents with adaptive behavioral response. Chaos, Solitons and Fractals, 2022, 156, 111849. | 2.5 | 7 |
| 4 | Modeling the effects of social distancing on the large-scale spreading of diseases. Epidemics, 2022, 38, 100544. | 1.5 | 5 |
| 5 | Are People Optimistically Biased about the Risk of COVID-19 Infection? Lessons from the First Wave of the Pandemic in Europe. International Journal of Environmental Research and Public Health, 2022, 19, 436. | 1.2 | 31 |
| 6 | A Need for a Paradigm Shift in Healthy Nutrition Research. Frontiers in Nutrition, 2022, 9, 881465. | 1.6 | 9 |
| 7 | The rise and fall of countries in the global value chains. Scientific Reports, 2022, 12, . | 1.6 | 4 |
| 8 | Impact of vaccine hesitancy on secondary COVID-19 outbreaks in the US: an age-structured SIR model. BMC Infectious Diseases, 2022, 22, . | 1.3 | 9 |
| 9 | From subcritical behavior to a correlation-induced transition in rumor models. Nature Communications, 2022, 13, . | 5.8 | 10 |
| 10 | Cooperation in costly-access environments. New Journal of Physics, 2022, 24, 083005. | 1.2 | 5 |
| 11 | Quantifying the importance and location of SARS-CoV-2 transmission events in large metropolitan areas. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 35 |
| 12 | Modeling the impact of COVID-19 on future tuberculosis burden. Communications Medicine, 2022, 2, . | 1.9 | 9 |
| 13 | Unique superdiffusion induced by directionality in multiplex networks. New Journal of Physics, 2021, 23, 013016. | 1.2 | 8 |
| 14 | Phase transitions and stability of dynamical processes on hypergraphs. Communications Physics, 2021, 4, . | 2.0 | 50 |
| 15 | Role of time scale in the spreading of asymmetrically interacting diseases. Physical Review Research, 2021, 3, . | 1.3 | 10 |
| 16 | Prediction of new scientific collaborations through multiplex networks. EPJ Data Science, 2021, 10, . | 1.5 | 10 |
| 17 | Framing in multiple public goods games and donation to charities. Royal Society Open Science, 2021, 8, 202117. | 1.1 | 2 |
| 18 | Polarization inhibits the phase transition of Axelrod's model. Physical Review E, 2021, 103, 062306. | 0.8 | 1 |

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|----|--|-----|-----------|
| 19 | Evolutionary dynamics of higher-order interactions in social networks. <i>Nature Human Behaviour</i> , 2021, 5, 586-595. | 6.2 | 222 |
| 20 | The physics of higher-order interactions in complex systems. <i>Nature Physics</i> , 2021, 17, 1093-1098. | 6.5 | 287 |
| 21 | Statistical properties of mutualistic-competitive random networks. <i>Chaos, Solitons and Fractals</i> , 2021, 153, 111504. | 2.5 | 2 |
| 22 | Impact of data accuracy on the evaluation of COVID-19 mitigation policies. <i>Data & Policy</i> , 2021, 3, . | 1.0 | 12 |
| 23 | Focus on multilayer networks. <i>New Journal of Physics</i> , 2020, 22, 010201. | 1.2 | 21 |
| 24 | Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020, 22, 013043. | 1.2 | 13 |
| 25 | A data-driven assessment of early travel restrictions related to the spreading of the novel COVID-19 within mainland China. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110068. | 2.5 | 41 |
| 26 | Data-driven contact structures: From homogeneous mixing to multilayer networks. <i>PLoS Computational Biology</i> , 2020, 16, e1008035. | 1.5 | 21 |
| 27 | Impact of intra and inter-cluster coupling balance on the performance of nonlinear networked systems. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110065. | 2.5 | 3 |
| 28 | Effect of network topology and node centrality on trading. <i>Scientific Reports</i> , 2020, 10, 11113. | 1.6 | 10 |
| 29 | Measuring nestedness: A comparative study of the performance of different metrics. <i>Ecology and Evolution</i> , 2020, 10, 11906-11921. | 0.8 | 16 |
| 30 | Modelling the impact of testing, contact tracing and household quarantine on second waves of COVID-19. <i>Nature Human Behaviour</i> , 2020, 4, 964-971. | 6.2 | 605 |
| 31 | Behavioural patterns behind the demise of the commons across different cultures. <i>Royal Society Open Science</i> , 2020, 7, 201026. | 1.1 | 3 |
| 32 | Disease and information spreading at different speeds in multiplex networks. <i>Physical Review E</i> , 2020, 102, 022312. | 0.8 | 26 |
| 33 | Evaluation of the potential incidence of COVID-19 and effectiveness of containment measures in Spain: a data-driven approach. <i>BMC Medicine</i> , 2020, 18, 157. | 2.3 | 59 |
| 34 | Effect of memory, intolerance, and second-order reputation on cooperation. <i>Chaos</i> , 2020, 30, 063122. | 1.0 | 35 |
| 35 | Quantifying uncertainty in a predictive model for popularity dynamics. <i>Physical Review E</i> , 2020, 101, 062311. | 0.8 | 5 |
| 36 | A novel route to cyclic dominance in voluntary social dilemmas. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190789. | 1.5 | 40 |

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|----|---|-----|-----------|
| 37 | Phase transitions in information spreading on structured populations. <i>Nature Physics</i> , 2020, 16, 590-596. | 6.5 | 53 |
| 38 | Dynamics of heuristics selection for cooperative behaviour. <i>New Journal of Physics</i> , 2020, 22, 123037. | 1.2 | 4 |
| 39 | Impact of the distribution of recovery rates on disease spreading in complex networks. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 23 |
| 40 | Collective dynamics of random Janus oscillator networks. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 6 |
| 41 | Social contagion models on hypergraphs. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 112 |
| 42 | Link prediction in multiplex networks via triadic closure. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 16 |
| 43 | Understanding drivers when investing for impact: an experimental study. <i>Palgrave Communications</i> , 2020, 6, . | 4.7 | 5 |
| 44 | Universality of eigenvector delocalization and the nature of the SIS phase transition in multiplex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 103405. | 0.9 | 2 |
| 45 | Data-driven contact structures: From homogeneous mixing to multilayer networks. , 2020, 16, e1008035. | | 0 |
| 46 | Data-driven contact structures: From homogeneous mixing to multilayer networks. , 2020, 16, e1008035. | | 0 |
| 47 | Data-driven contact structures: From homogeneous mixing to multilayer networks. , 2020, 16, e1008035. | | 0 |
| 48 | Data-driven contact structures: From homogeneous mixing to multilayer networks. , 2020, 16, e1008035. | | 0 |
| 49 | Layer degradation triggers an abrupt structural transition in multiplex networks. <i>Physical Review E</i> , 2019, 100, 012313. | 0.8 | 3 |
| 50 | Breaking the Spell of Nestedness: The Entropic Origin of Nestedness in Mutualistic Systems. <i>Physical Review X</i> , 2019, 9, . | 2.8 | 31 |
| 51 | The dynamics of collective social behavior in a crowd controlled game. <i>EPJ Data Science</i> , 2019, 8, . | 1.5 | 12 |
| 52 | Directionality reduces the impact of epidemics in multilayer networks. <i>New Journal of Physics</i> , 2019, 21, 093026. | 1.2 | 3 |
| 53 | Crash dynamics of interdependent networks. <i>Scientific Reports</i> , 2019, 9, 14574. | 1.6 | 5 |
| 54 | Onset of synchronization of Kuramoto oscillators in scale-free networks. <i>Physical Review E</i> , 2019, 100, 042302. | 0.8 | 8 |

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|----|--|-----|-----------|
| 55 | Ten principles to integrate the water-energy-land nexus with climate services for co-producing local and regional integrated assessments. <i>Science of the Total Environment</i> , 2019, 693, 133662. | 3.9 | 39 |
| 56 | Analyzing a networked social algorithm for collective selection of representative committees. <i>PLoS ONE</i> , 2019, 14, e0222945. | 1.1 | 0 |
| 57 | Epidemic spreading with awareness and different timescales in multiplex networks. <i>Physical Review E</i> , 2019, 100, 032313. | 0.8 | 44 |
| 58 | Unsupervised extraction of epidemic syndromes from participatory influenza surveillance self-reported symptoms. <i>PLoS Computational Biology</i> , 2019, 15, e1006173. | 1.5 | 20 |
| 59 | Spreading of computer viruses on time-varying networks. <i>Physical Review E</i> , 2019, 99, 050303. | 0.8 | 5 |
| 60 | The nested structural organization of the worldwide trade multi-layer network. <i>Scientific Reports</i> , 2019, 9, 2866. | 1.6 | 36 |
| 61 | Topical Alignment in Online Social Systems. <i>Frontiers in Physics</i> , 2019, 7, . | 1.0 | 7 |
| 62 | Spectral and localization properties of random bipartite graphs. <i>Chaos, Solitons and Fractals: X</i> , 2019, 3, 100021. | 1.0 | 9 |
| 63 | Bridging the gap between efficacy trials and model-based impact evaluation for new tuberculosis vaccines. <i>Nature Communications</i> , 2019, 10, 5457. | 5.8 | 6 |
| 64 | Replicator population dynamics of group interactions: Broken symmetry, thresholds for metastability, and macroscopic behavior. <i>Physical Review E</i> , 2019, 100, 052307. | 0.8 | 3 |
| 65 | Multilayer Networks in a Nutshell. <i>Annual Review of Condensed Matter Physics</i> , 2019, 10, 45-62. | 5.2 | 133 |
| 66 | Structural transition in interdependent networks with regular interconnections. <i>Physical Review E</i> , 2019, 99, 012311. | 0.8 | 1 |
| 67 | Intergenerational cooperation within the household: a Public Good game with three generations. <i>Review of Economics of the Household</i> , 2019, 17, 535-552. | 2.6 | 7 |
| 68 | Explore with caution: mapping the evolution of scientific interest in physics. <i>EPJ Data Science</i> , 2019, 8, . | 1.5 | 19 |
| 69 | Analyzing a networked social algorithm for collective selection of representative committees. , 2019, 14, e0222945. | | 0 |
| 70 | Analyzing a networked social algorithm for collective selection of representative committees. , 2019, 14, e0222945. | | 0 |
| 71 | Analyzing a networked social algorithm for collective selection of representative committees. , 2019, 14, e0222945. | | 0 |
| 72 | Analyzing a networked social algorithm for collective selection of representative committees. , 2019, 14, e0222945. | | 0 |

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|----|---|------|-----------|
| 73 | A general Markov chain approach for disease and rumour spreading in complex networks. <i>Journal of Complex Networks</i> , 2018, 6, 215-242. | 1.1 | 19 |
| 74 | Data-driven model for the assessment of <i>Mycobacterium tuberculosis</i> transmission in evolving demographic structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3238-E3245. | 3.3 | 36 |
| 75 | The contagion effects of repeated activation in social networks. <i>Social Networks</i> , 2018, 54, 326-335. | 1.3 | 26 |
| 76 | Unfolding the Complexity of the Global Value Chain: Strength and Entropy in the Single-Layer, Multiplex, and Multi-Layer International Trade Networks. <i>Entropy</i> , 2018, 20, 909. | 1.1 | 31 |
| 77 | Weighted random-geometric and random-rectangular graphs: spectral and eigenfunction properties of the adjacency matrix. <i>Journal of Complex Networks</i> , 2018, 6, 753-766. | 1.1 | 16 |
| 78 | Measurability of the epidemic reproduction number in data-driven contact networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12680-12685. | 3.3 | 199 |
| 79 | A polynomial eigenvalue approach for multiplex networks. <i>New Journal of Physics</i> , 2018, 20, 095004. | 1.2 | 8 |
| 80 | Projecting social contact matrices to different demographic structures. <i>PLoS Computational Biology</i> , 2018, 14, e1006638. | 1.5 | 48 |
| 81 | Resource heterogeneity leads to unjust effort distribution in climate change mitigation. <i>PLoS ONE</i> , 2018, 13, e0204369. | 1.1 | 23 |
| 82 | Diffusion Dynamics and Optimal Coupling in Multiplex Networks with Directed Layers. <i>Physical Review X</i> , 2018, 8, . | 2.8 | 36 |
| 83 | Physics of humans, physics for society. <i>Nature Physics</i> , 2018, 14, 870-870. | 6.5 | 19 |
| 84 | Robustness of cultural communities in an open-ended Axelrod's model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 492-500. | 1.2 | 8 |
| 85 | Tensorial Representation. <i>SpringerBriefs in Complexity</i> , 2018, , 87-112. | 0.1 | 1 |
| 86 | Multiplex Networks. <i>SpringerBriefs in Complexity</i> , 2018, , . | 0.1 | 38 |
| 87 | Fundamentals of spreading processes in single and multilayer complex networks. <i>Physics Reports</i> , 2018, 756, 1-59. | 10.3 | 145 |
| 88 | The joint influence of competition and mutualism on the biodiversity of mutualistic ecosystems. <i>Scientific Reports</i> , 2018, 8, 9253. | 1.6 | 35 |
| 89 | Multiplex Networks: Basic Definition and Formalism. <i>SpringerBriefs in Complexity</i> , 2018, , 7-20. | 0.1 | 4 |
| 90 | Multiplex Networks: A Framework for Studying Multiprocess Multiscale Connectivity Via Coupled Network Theory With an Application to River Deltas. <i>Geophysical Research Letters</i> , 2018, 45, 9681-9689. | 1.5 | 16 |

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|-----|--|-----|-----------|
| 91 | A networked voting rule for democratic representation. Royal Society Open Science, 2018, 5, 172265. | 1.1 | 2 |
| 92 | Sparse Power-Law Network Model for Reliable Statistical Predictions Based on Sampled Data. Entropy, 2018, 20, 257. | 1.1 | 4 |
| 93 | Structural Metrics. SpringerBriefs in Complexity, 2018, , 21-37. | 0.1 | 0 |
| 94 | Spectra. SpringerBriefs in Complexity, 2018, , 39-53. | 0.1 | 0 |
| 95 | Emergence of consensus as a modular-to-nested transition in communication dynamics. Scientific Reports, 2017, 7, 41673. | 1.6 | 26 |
| 96 | Disease Localization in Multilayer Networks. Physical Review X, 2017, 7, . | 2.8 | 56 |
| 97 | Human mobility networks and persistence of rapidly mutating pathogens. Royal Society Open Science, 2017, 4, 160914. | 1.1 | 15 |
| 98 | Onymity promotes cooperation in social dilemma experiments. Science Advances, 2017, 3, e1601444. | 4.7 | 199 |
| 99 | A Multilayer perspective for the analysis of urban transportation systems. Scientific Reports, 2017, 7, 44359. | 1.6 | 95 |
| 100 | Heterogeneous resource allocation can change social hierarchy in public goods games. Royal Society Open Science, 2017, 4, 170092. | 1.1 | 26 |
| 101 | Evolutionary dynamics of N-person Hawk-Dove games. Scientific Reports, 2017, 7, 4800. | 1.6 | 24 |
| 102 | Scaling properties of multilayer random networks. Physical Review E, 2017, 96, 012307. | 0.8 | 18 |
| 103 | Diluted banded random matrices: scaling behavior of eigenfunction and spectral properties. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 495205. | 0.7 | 7 |
| 104 | Cognitive Hierarchy Theory and Two-Person Games. Games, 2017, 8, 1. | 0.4 | 14 |
| 105 | Influzanet: Citizens Among 10 Countries Collaborating to Monitor Influenza in Europe. JMIR Public Health and Surveillance, 2017, 3, e66. | 1.2 | 56 |
| 106 | Connectivity of diagnostic technologies: improving surveillance and accelerating tuberculosis elimination. International Journal of Tuberculosis and Lung Disease, 2016, 20, 999-1003. | 0.6 | 26 |
| 107 | Editorial: At the Crossroads: Lessons and Challenges in Computational Social Science. Frontiers in Physics, 2016, 4, . | 1.0 | 4 |
| 108 | Characterization of multiple topological scales in multiplex networks through supra-Laplacian eigengaps. Physical Review E, 2016, 94, 052318. | 0.8 | 14 |

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|-----|---|-----|-----------|
| 109 | LÃ©vy random walks on multiplex networks. <i>Scientific Reports</i> , 2016, 6, 37641. | 1.6 | 37 |
| 110 | From degree-correlated to payoff-correlated activity for an optimal resolution of social dilemmas. <i>Physical Review E</i> , 2016, 94, 062315. | 0.8 | 22 |
| 111 | Epidemic spreading in random rectangular networks. <i>Physical Review E</i> , 2016, 94, 052316. | 0.8 | 30 |
| 112 | The dynamics of information-driven coordination phenomena: A transfer entropy analysis. <i>Science Advances</i> , 2016, 2, e1501158. | 4.7 | 67 |
| 113 | Participatory Syndromic Surveillance of Influenza in Europe. <i>Journal of Infectious Diseases</i> , 2016, 214, S386-S392. | 1.9 | 83 |
| 114 | Effects of Network Structure, Competition and Memory Time on Social Spreading Phenomena. <i>Physical Review X</i> , 2016, 6, . | 2.8 | 54 |
| 115 | Humans display a reduced set of consistent behavioral phenotypes in dyadic games. <i>Science Advances</i> , 2016, 2, e1600451. | 4.7 | 67 |
| 116 | On degreeâ€‘degree correlations in multilayer networks. <i>Physica D: Nonlinear Phenomena</i> , 2016, 323-324, 5-11. | 1.3 | 28 |
| 117 | Multilayer Networks: Metrics and Spectral Properties. <i>Understanding Complex Systems</i> , 2016, , 17-35. | 0.3 | 24 |
| 118 | On the impact of masking and blocking hypotheses for measuring the efficacy of new tuberculosis vaccines. <i>PeerJ</i> , 2016, 4, e1513. | 0.9 | 18 |
| 119 | The Role of the Organization Structure in the Diffusion of Innovations. <i>PLoS ONE</i> , 2015, 10, e0126076. | 1.1 | 13 |
| 120 | Sentiment cascades in the 15M movement. <i>EPJ Data Science</i> , 2015, 4, . | 1.5 | 46 |
| 121 | Reputation drives cooperative behaviour and network formation in human groups. <i>Scientific Reports</i> , 2015, 5, 7843. | 1.6 | 108 |
| 122 | Characterising two-pathogen competition in spatially structured environments. <i>Scientific Reports</i> , 2015, 5, 7895. | 1.6 | 31 |
| 123 | Structure of triadic relations in multiplex networks. <i>New Journal of Physics</i> , 2015, 17, 073029. | 1.2 | 78 |
| 124 | Dynamic instability of cooperation due to diverse activity patterns in evolutionary social dilemmas. <i>Europhysics Letters</i> , 2015, 109, 58002. | 0.7 | 90 |
| 125 | Multilayer networks. <i>Journal of Complex Networks</i> , 2014, 2, 203-271. | 1.1 | 2,388 |
| 126 | Role of centrality for the identification of influential spreaders in complex networks. <i>Physical Review E</i> , 2014, 90, 032812. | 0.8 | 119 |

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|-----|--|-----|-----------|
| 127 | Dynamics of Interacting Diseases. <i>Physical Review X</i> , 2014, 4, . | 2.8 | 106 |
| 128 | Intergroup information exchange drives cooperation in the public goods game. <i>Physical Review E</i> , 2014, 90, 042808. | 0.8 | 19 |
| 129 | Transition from reciprocal cooperation to persistent behaviour in social dilemmas at the end of adolescence. <i>Nature Communications</i> , 2014, 5, 4362. | 5.8 | 36 |
| 130 | Dimensionality reduction and spectral properties of multilayer networks. <i>Physical Review E</i> , 2014, 89, 052815. | 0.8 | 56 |
| 131 | Assessing the bias in samples of large online networks. <i>Social Networks</i> , 2014, 38, 16-27. | 1.3 | 178 |
| 132 | A comparative analysis of spatial Prisoner's Dilemma experiments: Conditional cooperation and payoff irrelevance. <i>Scientific Reports</i> , 2014, 4, 4615. | 1.6 | 93 |
| 133 | The Spanish "Indignados" Movement: Time Dynamics, Geographical Distribution, and Recruitment Mechanisms. <i>Lecture Notes in Social Networks</i> , 2014, , 155-177. | 0.8 | 3 |
| 134 | Emergence of Influential Spreaders in Modified Rumor Models. <i>Journal of Statistical Physics</i> , 2013, 151, 383-393. | 0.5 | 59 |
| 135 | The role of hidden influentials in the diffusion of online information cascades. <i>EPJ Data Science</i> , 2013, 2, . | 1.5 | 57 |
| 136 | Diffusion Dynamics on Multiplex Networks. <i>Physical Review Letters</i> , 2013, 110, 028701. | 2.9 | 738 |
| 137 | Effects of delayed recovery and nonuniform transmission on the spreading of diseases in complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 1577-1585. | 1.2 | 99 |
| 138 | Cooperation in changing environments: Irreversibility in the transition to cooperation in complex networks. <i>Chaos, Solitons and Fractals</i> , 2013, 56, 188-193. | 2.5 | 11 |
| 139 | Broadcasters and Hidden Influentials in Online Protest Diffusion. <i>American Behavioral Scientist</i> , 2013, 57, 943-965. | 2.3 | 227 |
| 140 | Evolutionary dynamics of group interactions on structured populations: a review. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120997. | 1.5 | 1,023 |
| 141 | Mathematical Formulation of Multilayer Networks. <i>Physical Review X</i> , 2013, 3, . | 2.8 | 513 |
| 142 | Diffusion Dynamics with Changing Network Composition. <i>Entropy</i> , 2013, 15, 4553-4568. | 1.1 | 11 |
| 143 | Host Mobility Drives Pathogen Competition in Spatially Structured Populations. <i>PLoS Computational Biology</i> , 2013, 9, e1003169. | 1.5 | 44 |
| 144 | Impact of Social Punishment on Cooperative Behavior in Complex Networks. <i>Scientific Reports</i> , 2013, 3, 3055. | 1.6 | 166 |

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|-----|---|-----|-----------|
| 145 | Cascading behaviour in complex socio-technical networks. <i>Journal of Complex Networks</i> , 2013, 1, 3-24. | 1.1 | 110 |
| 146 | Modeling self-sustained activity cascades in socio-technical networks. <i>Europhysics Letters</i> , 2013, 104, 48004. | 0.7 | 16 |
| 147 | Contact-based social contagion in multiplex networks. <i>Physical Review E</i> , 2013, 88, 050801. | 0.8 | 193 |
| 148 | Generalized synchronization in relay systems with instantaneous coupling. <i>Physical Review E</i> , 2013, 88, 052908. | 0.8 | 31 |
| 149 | Data reliability in complex directed networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P12008. | 0.9 | 1 |
| 150 | Cascading Behaviour in Complex Socio-Technical Networks. <i>SSRN Electronic Journal</i> , 2013, . | 0.4 | 2 |
| 151 | Gender Differences in Cooperation: Experimental Evidence on High School Students. <i>PLoS ONE</i> , 2013, 8, e83700. | 1.1 | 48 |
| 152 | Locating privileged spreaders on an online social network. <i>Physical Review E</i> , 2012, 85, 066123. | 0.8 | 73 |
| 153 | Exploring complex networks by means of adaptive walkers. <i>Physical Review E</i> , 2012, 86, 066116. | 0.8 | 13 |
| 154 | Velocity-enhanced cooperation of moving agents playing public goods games. <i>Physical Review E</i> , 2012, 85, 067101. | 0.8 | 53 |
| 155 | Stability of Boolean multilevel networks. <i>Physical Review E</i> , 2012, 86, 036115. | 0.8 | 66 |
| 156 | Explosive First-Order Transition to Synchrony in Networked Chaotic Oscillators. <i>Physical Review Letters</i> , 2012, 108, 168702. | 2.9 | 154 |
| 157 | TOPOLOGICAL VERSUS DYNAMICAL ROBUSTNESS IN A LEXICAL NETWORK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250157. | 0.7 | 8 |
| 158 | EFFECTS OF ENVIRONMENT KNOWLEDGE ON AGGLOMERATION AND COOPERATION IN SPATIAL PUBLIC GOODS GAMES. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1250056. | 0.9 | 70 |
| 159 | DYNAMICS OF PERSISTENT INFECTIONS IN HOMOGENEOUS POPULATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250164. | 0.7 | 2 |
| 160 | EFFECTS OF TRAFFIC PROPERTIES AND DEGREE HETEROGENEITY IN FLOW FLUCTUATIONS ON COMPLEX NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250170. | 0.7 | 2 |
| 161 | Human behavior in Prisoner's Dilemma experiments suppresses network reciprocity. <i>Scientific Reports</i> , 2012, 2, 325. | 1.6 | 82 |
| 162 | Heterogeneous networks do not promote cooperation when humans play a Prisoner's Dilemma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12922-12926. | 3.3 | 277 |

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|-----|--|-----|-----------|
| 163 | Evolutionary dynamics on interdependent populations. <i>Physical Review E</i> , 2012, 86, 056113. | 0.8 | 104 |
| 164 | Topological effects of data incompleteness of gene regulatory networks. <i>BMC Systems Biology</i> , 2012, 6, 110. | 3.0 | 10 |
| 165 | Absence of influential spreaders in rumor dynamics. <i>Physical Review E</i> , 2012, 85, 026116. | 0.8 | 199 |
| 166 | Empathy Emerges Spontaneously in the Ultimatum Game: Small Groups and Networks. <i>PLoS ONE</i> , 2012, 7, e43781. | 1.1 | 59 |
| 167 | Modeling Epidemic Spreading in Complex Networks: Concurrency and Traffic. <i>Springer Optimization and Its Applications</i> , 2012, , 435-462. | 0.6 | 9 |
| 168 | Growing Networks Driven by the Evolutionary Prisoner's Dilemma Game. <i>Springer Optimization and Its Applications</i> , 2012, , 115-136. | 0.6 | 3 |
| 169 | Modeling human mobility responses to the large-scale spreading of infectious diseases. <i>Scientific Reports</i> , 2011, 1, 62. | 1.6 | 269 |
| 170 | The Dynamics of Protest Recruitment through an Online Network. <i>Scientific Reports</i> , 2011, 1, 197. | 1.6 | 398 |
| 171 | Nonperturbative heterogeneous mean-field approach to epidemic spreading in complex networks. <i>Physical Review E</i> , 2011, 84, 036105. | 0.8 | 81 |
| 172 | Selective advantage of tolerant cultural traits in the Axelrod-Schelling model. <i>Physical Review E</i> , 2011, 83, 056103. | 0.8 | 17 |
| 173 | The Transcriptional Regulatory Network of <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2011, 6, e22178. | 1.1 | 58 |
| 174 | Modeling Abnormal Priming in Alzheimer's Patients with a Free Association Network. <i>PLoS ONE</i> , 2011, 6, e22651. | 1.1 | 32 |
| 175 | Structural and Dynamical Patterns on Online Social Networks: The Spanish May 15th Movement as a Case Study. <i>PLoS ONE</i> , 2011, 6, e23883. | 1.1 | 127 |
| 176 | Coordination and growth: the Stag Hunt game on evolutionary networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P05008. | 0.9 | 21 |
| 177 | Cooperation in scale-free networks with limited associative capacities. <i>Physical Review E</i> , 2011, 83, 057101. | 0.8 | 53 |
| 178 | Explosive Synchronization Transitions in Scale-Free Networks. <i>Physical Review Letters</i> , 2011, 106, 128701. | 2.9 | 459 |
| 179 | Coevolutionary network approach to cultural dynamics controlled by intolerance. <i>Physical Review E</i> , 2011, 84, 067101. | 0.8 | 22 |
| 180 | Evolution of microscopic and mesoscopic synchronized patterns in complex networks. <i>Chaos</i> , 2011, 21, 016105. | 1.0 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | From Modular to Centralized Organization of Synchronization in Functional Areas of the Cat Cerebral Cortex. PLoS ONE, 2010, 5, e12313. | 1.1 | 75 |
| 182 | Spreading of persistent infections in heterogeneous populations. Physical Review E, 2010, 81, 056108. | 0.8 | 22 |
| 183 | Dynamical organization towards consensus in the Axelrod model on complex networks. Physical Review E, 2010, 81, 056105. | 0.8 | 28 |
| 184 | COOPERATION IN THE PRISONER'S DILEMMA GAME IN RANDOM SCALE-FREE GRAPHS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 849-857. | 0.7 | 18 |
| 185 | Discrete-time Markov chain approach to contact-based disease spreading in complex networks. Europhysics Letters, 2010, 89, 38009. | 0.7 | 403 |
| 186 | Effects of mass media action on the Axelrod model with social influence. Physical Review E, 2010, 82, 016111. | 0.8 | 27 |
| 187 | Effects of mobility in a population of prisoner's dilemma players. Physical Review E, 2009, 79, 067101. | 0.8 | 226 |
| 188 | Residential segregation and cultural dissemination: An Axelrod-Schelling model. Physical Review E, 2009, 80, 046123. | 0.8 | 37 |
| 189 | SYNCHRONIZATION IN RANDOM GEOMETRIC GRAPHS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 687-693. | 0.7 | 25 |
| 190 | The Ultimatum Game in complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P09012. | 0.9 | 61 |
| 191 | Evolutionary game dynamics in a growing structured population. New Journal of Physics, 2009, 11, 083031. | 1.2 | 130 |
| 192 | Cooperative scale-free networks despite the presence of defector hubs. Europhysics Letters, 2009, 88, 38003. | 0.7 | 59 |
| 193 | Traffic-driven epidemic spreading in finite-size scale-free networks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16897-16902. | 3.3 | 163 |
| 194 | Social network reciprocity as a phase transition in evolutionary cooperation. Physical Review E, 2009, 79, 026106. | 0.8 | 71 |
| 195 | Complex Network Modeling: A New Approach to Neurosciences. , 2009, , 241-263. | | 1 |
| 196 | Synchronization in complex networks. Physics Reports, 2008, 469, 93-153. | 10.3 | 2,928 |
| 197 | Natural selection of cooperation and degree hierarchy in heterogeneous populations. Journal of Theoretical Biology, 2008, 253, 296-301. | 0.8 | 53 |
| 198 | Complex Cooperative Networks from Evolutionary Preferential Attachment. PLoS ONE, 2008, 3, e2449. | 1.1 | 166 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 199 | Spreading of sexually transmitted diseases in heterosexual populations. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1399-1404. | 3.3 | 94 |
| 200 | Dynamics of gossip-like information dissemination in complex computer networks. International Journal of Computer Mathematics, 2008, 85, 1165-1173. | 1.0 | 3 |
| 201 | Scaling Breakdown in Flow Fluctuations on Complex Networks. Physical Review Letters, 2008, 100, 208701. | 2.9 | 97 |
| 202 | SYNCHRONIZATION OF NETWORKS WITH VARIABLE LOCAL PROPERTIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2501-2507. | 0.7 | 13 |
| 203 | Robustness of cooperation in the evolutionary prisoner's dilemma on complex networks. New Journal of Physics, 2007, 9, 184-184. | 1.2 | 149 |
| 204 | Dynamical Organization of Cooperation in Complex Topologies. Physical Review Letters, 2007, 98, 108103. | 2.9 | 462 |
| 205 | Synchronizability determined by coupling strengths and topology on complex networks. Physical Review E, 2007, 75, 066106. | 0.8 | 86 |
| 206 | Paths to Synchronization on Complex Networks. Physical Review Letters, 2007, 98, 034101. | 2.9 | 312 |
| 207 | Awaking and sleeping of a complex network. Neural Networks, 2007, 20, 102-108. | 3.3 | 8 |
| 208 | Theory of rumour spreading in complex social networks. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 457-470. | 1.2 | 591 |
| 209 | Complex networks: Structure and dynamics. Physics Reports, 2006, 424, 175-308. | 10.3 | 8,661 |
| 210 | Immunization of real complex communication networks. European Physical Journal B, 2006, 49, 259-264. | 0.6 | 72 |
| 211 | Current trends in the modeling of biological networks. AIP Conference Proceedings, 2006, , . | 0.3 | 0 |
| 212 | From scale-free to Erdos-Renyi networks. Physical Review E, 2006, 73, 056124. | 0.8 | 106 |
| 213 | Scale-free topologies and activatory-inhibitory interactions. Chaos, 2006, 16, 015114. | 1.0 | 7 |
| 214 | Structure of peer-to-peer social networks. Physical Review E, 2006, 73, 036123. | 0.8 | 65 |
| 215 | Michaelis-Menten dynamics in complex heterogeneous networks. Physica A: Statistical Mechanics and Its Applications, 2005, 352, 265-281. | 1.2 | 5 |
| 216 | On the robustness of complex heterogeneous gene expression networks. Biophysical Chemistry, 2005, 115, 225-228. | 1.5 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Dynamics of jamming transitions in complex networks. <i>Europhysics Letters</i> , 2005, 71, 325-331. | 0.7 | 213 |
| 218 | Distance-dcovering problems in scale-free networks with degree correlations. <i>Physical Review E</i> , 2005, 71, 035102. | 0.8 | 45 |
| 219 | Local versus global knowledge in the Barabási-Albert scale-free network model. <i>Physical Review E</i> , 2004, 69, 037103. | 0.8 | 33 |
| 220 | Improved routing strategies for Internet traffic delivery. <i>Physical Review E</i> , 2004, 70, 056105. | 0.8 | 244 |
| 221 | Efficiency and reliability of epidemic data dissemination in complex networks. <i>Physical Review E</i> , 2004, 69, 055101. | 0.8 | 111 |
| 222 | Synchronization of Kuramoto oscillators in scale-free networks. <i>Europhysics Letters</i> , 2004, 68, 603-609. | 0.7 | 240 |
| 223 | Fitness for synchronization of network motifs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 343, 279-287. | 1.2 | 63 |
| 224 | Dynamics of rumor spreading in complex networks. <i>Physical Review E</i> , 2004, 69, 066130. | 0.8 | 682 |
| 225 | Disease spreading in structured scale-free networks. <i>European Physical Journal B</i> , 2003, 31, 265-271. | 0.6 | 60 |
| 226 | Error diagrams and temporal correlations in a fracture model with characteristic and power-law distributed avalanches. <i>European Physical Journal B</i> , 2003, 34, 489-494. | 0.6 | 0 |
| 227 | Size dependency of tension strength in natural fiber composites. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 547-560. | 1.2 | 30 |
| 228 | Resilience to damage of graphs with degree correlations. <i>Physical Review E</i> , 2003, 67, 015101. | 0.8 | 184 |
| 229 | Epidemic incidence in correlated complex networks. <i>Physical Review E</i> , 2003, 68, 035103. | 0.8 | 176 |
| 230 | Time evolution of damage under variable ranges of load transfer. <i>Physical Review E</i> , 2003, 68, 026116. | 0.8 | 21 |
| 231 | Topology and correlations in structured scale-free networks. <i>Physical Review E</i> , 2003, 67, 046111. | 0.8 | 70 |
| 232 | Creep rupture has two universality classes. <i>Europhysics Letters</i> , 2003, 63, 347-353. | 0.7 | 48 |
| 233 | Critical load and congestion instabilities in scale-free networks. <i>Europhysics Letters</i> , 2003, 62, 292-298. | 0.7 | 164 |
| 234 | Fracture model with variable range of interaction. <i>Physical Review E</i> , 2002, 65, 046148. | 0.8 | 119 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Instability of scale-free networks under node-breaking avalanches. Europhysics Letters, 2002, 58, 630-636. | 0.7 | 204 |
| 236 | The Bak-Sneppen model on scale-free networks. Europhysics Letters, 2002, 57, 765-771. | 0.7 | 34 |
| 237 | Title is missing!. European Physical Journal B, 2002, 26, 521-529. | 0.6 | 209 |
| 238 | A model for complex aftershock sequences. Journal of Geophysical Research, 2001, 106, 6609-6619. | 3.3 | 26 |
| 239 | Phase transitions in load transfer models of fracture. Physica A: Statistical Mechanics and Its Applications, 2001, 296, 9-23. | 1.2 | 12 |
| 240 | Exact numerical solution for a time-dependent fibre-bundle model with continuous damage. Journal of Physics A, 2001, 34, 9983-9991. | 1.6 | 9 |
| 241 | Time dependence of breakdown in a global fiber-bundle model with continuous damage. Physical Review E, 2001, 63, 066106. | 0.8 | 21 |
| 242 | Fracture and Second-Order Phase Transitions. Physical Review Letters, 2000, 85, 2865-2868. | 2.9 | 84 |
| 243 | Modified renormalization strategy for sandpile models. Physical Review E, 1999, 60, 7565-7568. | 0.8 | 4 |
| 244 | Bounds for the time to failure of hierarchical systems of fracture. Physical Review E, 1999, 59, R1287-R1290. | 0.8 | 5 |
| 245 | Time to failure of hierarchical load-transfer models of fracture. Physical Review E, 1999, 60, 2581-2594. | 0.8 | 23 |
| 246 | Self-organized criticality in a fibre-bundle-type model. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 400-409. | 1.2 | 24 |
| 247 | Probabilistic approach to time-dependent load-transfer models of fracture. Physical Review E, 1998, 58, 1528-1532. | 0.8 | 19 |
| 248 | Criticality in Droplet Fragmentation. Physical Review Letters, 1996, 76, 42-45. | 2.9 | 44 |
| 249 | Assessing the Bias in Communication Networks Sampled from Twitter. SSRN Electronic Journal, 0, , . | 0.4 | 26 |
| 250 | Broadcasters and Hidden Influentials in Online Protest Diffusion. SSRN Electronic Journal, 0, , . | 0.4 | 8 |
| 251 | Multilayer Networks. SSRN Electronic Journal, 0, , . | 0.4 | 50 |
| 252 | Assessing the Risk of Spatial Spreading of Diseases in Hospitals. Frontiers in Physics, 0, 10, . | 1.0 | 0 |