

Guido Caldarelli

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.

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|--------------------|--------------------------|----------------|-----------------|
| 189 papers | 10,394 citations | 53 h-index | 98 g-index |
| 202 ext. papers | 12,514 ext. citations | 4.3 avg, IF | 6.57 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 189 | The spreading of misinformation online. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 554-9 | 11.5 | 813 |
| 188 | Scale-Free Networks 2007 , | | 568 |
| 187 | Scale-free networks from varying vertex intrinsic fitness. <i>Physical Review Letters</i> , 2002 , 89, 258702 | 7.4 | 514 |
| 186 | DebtRank: too central to fail? Financial networks, the FED and systemic risk. <i>Scientific Reports</i> , 2012 , 2, 541 | 4.9 | 393 |
| 185 | A network analysis of the Italian overnight money market. <i>Journal of Economic Dynamics and Control</i> , 2008 , 32, 259-278 | 1.3 | 304 |
| 184 | Topology of correlation-based minimal spanning trees in real and model markets. <i>Physical Review E</i> , 2003 , 68, 046130 | 2.4 | 288 |
| 183 | Science vs conspiracy: collective narratives in the age of misinformation. <i>PLoS ONE</i> , 2015 , 10, e0118093 | 3.7 | 246 |
| 182 | Networks of equities in financial markets. <i>European Physical Journal B</i> , 2004 , 38, 363-371 | 1.2 | 236 |
| 181 | A new metrics for countries's fitness and products's complexity. <i>Scientific Reports</i> , 2012 , 2, 723 | 4.9 | 218 |
| 180 | Universal scaling relations in food webs. <i>Nature</i> , 2003 , 423, 165-8 | 50.4 | 211 |
| 179 | Quenched disorder, memory, and self-organization. <i>Physical Review E</i> , 1996 , 53, R13-R16 | 2.4 | 186 |
| 178 | Detecting communities in large networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 352, 669-676 | 3.3 | 182 |
| 177 | Echo Chambers: Emotional Contagion and Group Polarization on Facebook. <i>Scientific Reports</i> , 2016 , 6, 37825 | 4.9 | 178 |
| 176 | Preferential attachment in the growth of social networks: the internet encyclopedia Wikipedia. <i>Physical Review E</i> , 2006 , 74, 036116 | 2.4 | 176 |
| 175 | Modelling Coevolution in Multispecies Communities. <i>Journal of Theoretical Biology</i> , 1998 , 193, 345-358 | 2.3 | 167 |
| 174 | The Effects of Twitter Sentiment on Stock Price Returns. <i>PLoS ONE</i> , 2015 , 10, e0138441 | 3.7 | 156 |
| 173 | Measuring the intangibles: a metrics for the economic complexity of countries and products. <i>PLoS ONE</i> , 2013 , 8, e70726 | 3.7 | 136 |

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|-----|--|------|-----|
| 172 | The fractal properties of Internet. <i>Europhysics Letters</i> , 2000 , 52, 386-391 | 1.6 | 127 |
| 171 | Web search queries can predict stock market volumes. <i>PLoS ONE</i> , 2012 , 7, e40014 | 3.7 | 124 |
| 170 | Random hypergraphs and their applications. <i>Physical Review E</i> , 2009 , 79, 066118 | 2.4 | 124 |
| 169 | The scale-free topology of market investments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 350, 491-499 | 3.3 | 122 |
| 168 | Debunking in a world of tribes. <i>PLoS ONE</i> , 2017 , 12, e0181821 | 3.7 | 121 |
| 167 | A prototype model of stock exchange. <i>Europhysics Letters</i> , 1997 , 40, 479-484 | 1.6 | 116 |
| 166 | Fitness model for the Italian interbank money market. <i>Physical Review E</i> , 2006 , 74, 066112 | 2.4 | 116 |
| 165 | The statistical physics of real-world networks. <i>Nature Reviews Physics</i> , 2019 , 1, 58-71 | 23.6 | 114 |
| 164 | A network analysis of countries' export flows: firm grounds for the building blocks of the economy. <i>PLoS ONE</i> , 2012 , 7, e47278 | 3.7 | 112 |
| 163 | Anatomy of news consumption on Facebook. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3035-3039 | 11.5 | 110 |
| 162 | Pathways towards instability in financial networks. <i>Nature Communications</i> , 2017 , 8, 14416 | 17.4 | 109 |
| 161 | Large Scale Structure and Dynamics of Complex Networks. <i>Complex Systems and Interdisciplinary Science</i> , 2007 , | | 102 |
| 160 | The price of complexity in financial networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10031-6 | 11.5 | 99 |
| 159 | Mapping social dynamics on Facebook: The Brexit debate. <i>Social Networks</i> , 2017 , 50, 6-16 | 3.9 | 98 |
| 158 | Quantifying randomness in real networks. <i>Nature Communications</i> , 2015 , 6, 8627 | 17.4 | 98 |
| 157 | Opinion dynamics on interacting networks: media competition and social influence. <i>Scientific Reports</i> , 2014 , 4, 4938 | 4.9 | 97 |
| 156 | Emotional Dynamics in the Age of Misinformation. <i>PLoS ONE</i> , 2015 , 10, e0138740 | 3.7 | 95 |
| 155 | Default cascades in complex networks: topology and systemic risk. <i>Scientific Reports</i> , 2013 , 3, 2759 | 4.9 | 95 |

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| 154 | Users Polarization on Facebook and Youtube. <i>PLoS ONE</i> , 2016 , 11, e0159641 | 3.7 | 89 |
| 153 | Scaling in currency exchange. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 245, 423-436 | 3.3 | 84 |
| 152 | Interplay between topology and dynamics in the World Trade Web. <i>European Physical Journal B</i> , 2007 , 57, 159-164 | 1.2 | 84 |
| 151 | Vertex intrinsic fitness: how to produce arbitrary scale-free networks. <i>Physical Review E</i> , 2004 , 70, 056126 | 3.4 | 84 |
| 150 | Modeling confirmation bias and polarization. <i>Scientific Reports</i> , 2017 , 7, 40391 | 4.9 | 83 |
| 149 | Economic complexity: Conceptual grounding of a new metrics for global competitiveness. <i>Journal of Economic Dynamics and Control</i> , 2013 , 37, 1683-1691 | 1.3 | 81 |
| 148 | Self-organized network evolution coupled to extremal dynamics. <i>Nature Physics</i> , 2007 , 3, 813-817 | 16.2 | 75 |
| 147 | Assortative model for social networks. <i>Physical Review E</i> , 2004 , 70, 037101 | 2.4 | 74 |
| 146 | The network of plants volatile organic compounds. <i>Scientific Reports</i> , 2017 , 7, 11050 | 4.9 | 66 |
| 145 | Bootstrapping Topological Properties and Systemic Risk of Complex Networks Using the Fitness Model. <i>Journal of Statistical Physics</i> , 2013 , 151, 720-734 | 1.5 | 66 |
| 144 | Self-Organization and Annealed Disorder in Fracturing Process. <i>Physical Review Letters</i> , 1996 , 77, 2503-2506 | 5.6 | 64 |
| 143 | Hypergraph topological quantities for tagged social networks. <i>Physical Review E</i> , 2009 , 80, 036118 | 2.4 | 62 |
| 142 | DebtRank: A Microscopic Foundation for Shock Propagation. <i>PLoS ONE</i> , 2015 , 10, e0130406 | 3.7 | 62 |
| 141 | Putting proteins back into water. <i>Physical Review E</i> , 2000 , 62, 8449-52 | 2.4 | 60 |
| 140 | Self-healing networks: redundancy and structure. <i>PLoS ONE</i> , 2014 , 9, e87986 | 3.7 | 57 |
| 139 | Robustness and assortativity for diffusion-like processes in scale-free networks. <i>Europhysics Letters</i> , 2012 , 97, 68006 | 1.6 | 57 |
| 138 | Structure of cycles and local ordering in complex networks. <i>European Physical Journal B</i> , 2004 , 38, 183-186 | 2.6 | 56 |
| 137 | Trend of Narratives in the Age of Misinformation. <i>PLoS ONE</i> , 2015 , 10, e0134641 | 3.7 | 53 |

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| 136 | Evolution of controllability in interbank networks. <i>Scientific Reports</i> , 2013 , 3, 1626 | 4.9 | 51 |
| 135 | Homophily and polarization in the age of misinformation. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 2047-2059 | 2.3 | 49 |
| 134 | A multi-level geographical study of Italian political elections from Twitter data. <i>PLoS ONE</i> , 2014 , 9, e95809 | 3.7 | 46 |
| 133 | Inferring monopartite projections of bipartite networks: an entropy-based approach. <i>New Journal of Physics</i> , 2017 , 19, 053022 | 2.9 | 45 |
| 132 | On the rich-club effect in dense and weighted networks. <i>European Physical Journal B</i> , 2009 , 67, 271-275 | 1.2 | 40 |
| 131 | Leveraging the network: A stress-test framework based on DebtRank. <i>Statistics and Risk Modeling</i> , 2016 , 33, 117-138 | 0.2 | 39 |
| 130 | Percolation in real wildfires. <i>Europhysics Letters</i> , 2001 , 56, 510-516 | 1.6 | 38 |
| 129 | Topologically biased random walk and community finding in networks. <i>Physical Review E</i> , 2010 , 82, 066109 | 1.4 | 37 |
| 128 | Ensemble approach to the analysis of weighted networks. <i>Physical Review E</i> , 2007 , 76, 016101 | 2.4 | 37 |
| 127 | Cold and warm denaturation of proteins. <i>Journal of Biological Physics</i> , 2001 , 27, 229-41 | 1.6 | 37 |
| 126 | Social network growth with assortative mixing. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 338, 119-124 | 3.3 | 36 |
| 125 | Viral Misinformation 2015 , | | 35 |
| 124 | Reconstruction methods for networks: The case of economic and financial systems. <i>Physics Reports</i> , 2018 , 757, 1-47 | 27.7 | 35 |
| 123 | Invasion percolation and critical transient in the Barabási model of human dynamics. <i>Physical Review Letters</i> , 2007 , 98, 208701 | 7.4 | 35 |
| 122 | Virtual Round Table on ten leading questions for network research. <i>European Physical Journal B</i> , 2004 , 38, 143-145 | 1.2 | 35 |
| 121 | Distress Propagation in Complex Networks: The Case of Non-Linear DebtRank. <i>PLoS ONE</i> , 2016 , 11, e0163825 | 3.7 | 35 |
| 120 | Trading strategies in the Italian interbank market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 376, 467-479 | 3.3 | 34 |
| 119 | The corporate boards networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 338, 98-106 | 3.3 | 34 |

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| 118 | Dynamic fracture model for acoustic emission. <i>European Physical Journal B</i> , 2003 , 36, 203-207 | 1.2 | 33 |
| 117 | Cold and warm swelling of hydrophobic polymers. <i>Physical Review E</i> , 2001 , 63, 031802 | 2.4 | 32 |
| 116 | Loops structure of the Internet at the autonomous system level. <i>Physical Review E</i> , 2005 , 71, 066116 | 2.4 | 30 |
| 115 | Uncovering the topology of configuration space networks. <i>Physical Review E</i> , 2007 , 76, 026113 | 2.4 | 29 |
| 114 | Emergence of Complexity in Financial Networks. <i>Lecture Notes in Physics</i> , 2004 , 399-423 | 0.8 | 29 |
| 113 | Beauty and distance in the stable marriage problem. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 300, 325-331 | 3.3 | 29 |
| 112 | Network Valuation in Financial Systems. <i>SSRN Electronic Journal</i> , 2016 , | 1 | 28 |
| 111 | Islanding the power grid on the transmission level: less connections for more security. <i>Scientific Reports</i> , 2016 , 6, 34797 | 4.9 | 27 |
| 110 | Randomly pinned landscape evolution. <i>Physical Review E</i> , 1997 , 55, R4865-R4868 | 2.4 | 27 |
| 109 | The rise of China in the International Trade Network: a community core detection approach. <i>PLoS ONE</i> , 2014 , 9, e105496 | 3.7 | 26 |
| 108 | Credit Default Swaps networks and systemic risk. <i>Scientific Reports</i> , 2014 , 4, 6822 | 4.9 | 25 |
| 107 | The role of bot squads in the political propaganda on Twitter. <i>Communications Physics</i> , 2020 , 3, | 5.4 | 25 |
| 106 | The Structure of Financial Networks 2010 , 131-163 | | 24 |
| 105 | SPECTRAL METHODS CLUSTER WORDS OF THE SAME CLASS IN A SYNTACTIC DEPENDENCY NETWORK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 2453-2463 | 2 | 24 |
| 104 | River landscapes and optimal channel networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6548-6553 | 11.5 | 23 |
| 103 | Criticality in models for fracture in disordered media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 15-20 | 3.3 | 22 |
| 102 | Social Determinants of Content Selection in the Age of (Mis)Information. <i>Lecture Notes in Computer Science</i> , 2014 , 259-268 | 0.9 | 22 |
| 101 | Network valuation in financial systems. <i>Mathematical Finance</i> , 2020 , 30, 1181-1204 | 2.3 | 21 |

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| 100 | Green Power Grids: How Energy from Renewable Sources Affects Networks and Markets. <i>PLoS ONE</i> , 2015 , 10, e0135312 | 3.7 | 21 |
| 99 | Coupling News Sentiment with Web Browsing Data Improves Prediction of Intra-Day Price Dynamics. <i>PLoS ONE</i> , 2016 , 11, e0146576 | 3.7 | 21 |
| 98 | Fractal and topological properties of directed fractures. <i>Physical Review E</i> , 1994 , 49, 2673-2679 | 2.4 | 20 |
| 97 | Systemic risk from investment similarities. <i>PLoS ONE</i> , 2019 , 14, e0217141 | 3.7 | 19 |
| 96 | Communities Detection in Large Networks. <i>Lecture Notes in Computer Science</i> , 2004 , 181-187 | 0.9 | 19 |
| 95 | Twitter-Based Analysis of the Dynamics of Collective Attention to Political Parties. <i>PLoS ONE</i> , 2015 , 10, e0131184 | 3.7 | 19 |
| 94 | SARS-COV-2 comorbidity network and outcome in hospitalized patients in Crema, Italy | | 19 |
| 93 | Cascades in interdependent flow networks. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 323-324, 35-39 | 3.3 | 19 |
| 92 | Grand canonical validation of the bipartite international trade network. <i>Physical Review E</i> , 2017 , 96, 022306 | 3.0 | 18 |
| 91 | Roughness of fracture surfaces. <i>Europhysics Letters</i> , 2000 , 52, 304-310 | 1.6 | 18 |
| 90 | SARS-COV-2 comorbidity network and outcome in hospitalized patients in Crema, Italy. <i>PLoS ONE</i> , 2021 , 16, e0248498 | 3.7 | 18 |
| 89 | A Complex Network Approach for the Estimation of the Energy Demand of Electric Mobility. <i>Scientific Reports</i> , 2018 , 8, 268 | 4.9 | 17 |
| 88 | Stationary self-organized fractal structures in an open, dissipative electrical system. <i>Journal of Physics A</i> , 1998 , 31, L337-L343 | | 17 |
| 87 | An economic and financial exploratory. <i>European Physical Journal: Special Topics</i> , 2012 , 214, 361-400 | 2.3 | 16 |
| 86 | PageRank equation and localization in the WWW. <i>Europhysics Letters</i> , 2009 , 88, 48002 | 1.6 | 16 |
| 85 | Folksonomies and clustering in the collaborative system CiteULike. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224016 | 2 | 16 |
| 84 | Invasion percolation with temperature and the nature of self-organized criticality in real systems. <i>Physical Review E</i> , 2000 , 62, 7638-41 | 2.4 | 16 |
| 83 | Self-organized critical scaling at surfaces. <i>Physical Review E</i> , 1995 , 52, 72-75 | 2.4 | 16 |

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| 82 | Extracting significant signal of news consumption from social networks: the case of Twitter in Italian political elections. <i>Palgrave Communications</i> , 2019 , 5, | 5.3 | 16 |
| 81 | Grand canonical ensemble of weighted networks. <i>Physical Review E</i> , 2019 , 99, 030301 | 2.4 | 15 |
| 80 | Bayesian Networks Analysis of Malocclusion Data. <i>Scientific Reports</i> , 2017 , 7, 15236 | 4.9 | 15 |
| 79 | Hyperbolicity measures democracy in real-world networks. <i>Physical Review E</i> , 2015 , 92, 032812 | 2.4 | 15 |
| 78 | Hierarchical mutual information for the comparison of hierarchical community structures in complex networks. <i>Physical Review E</i> , 2015 , 92, 062825 | 2.4 | 15 |
| 77 | Widespread occurrence of the inverse square distribution in social sciences and taxonomy. <i>Physical Review E</i> , 2004 , 69, 035101 | 2.4 | 14 |
| 76 | Network Analysis of Gut Microbiome and Metabolome to Discover Microbiota-Linked Biomarkers in Patients Affected by Non-Small Cell Lung Cancer. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 14 |
| 75 | Flow of online misinformation during the peak of the COVID-19 pandemic in Italy. <i>EPJ Data Science</i> , 2021 , 10, 34 | 3.4 | 14 |
| 74 | Cellular models for river networks. <i>Physical Review E</i> , 2001 , 63, 021118 | 2.4 | 13 |
| 73 | Self-affine properties of fractures in brittle materials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 280, 161-165 | 3.3 | 13 |
| 72 | Dynamics of fractures in quenched disordered media. <i>Physical Review E</i> , 1998 , 57, 3878-3885 | 2.4 | 13 |
| 71 | True scale-free networks hidden by finite size effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 13 |
| 70 | Enhanced capital-asset pricing model for the reconstruction of bipartite financial networks. <i>Physical Review E</i> , 2017 , 96, 032315 | 2.4 | 12 |
| 69 | The multilayer structure of corporate networks. <i>New Journal of Physics</i> , 2019 , 21, 025002 | 2.9 | 12 |
| 68 | Hot sandpiles. <i>Europhysics Letters</i> , 1996 , 35, 481-486 | 1.6 | 12 |
| 67 | Perturbative approach to the Bak-Sneppen model. <i>Physical Review Letters</i> , 2001 , 86, 1896-9 | 7.4 | 12 |
| 66 | Growing dynamics of Internet providers. <i>Physical Review E</i> , 2001 , 64, 035105 | 2.4 | 12 |
| 65 | The physics of financial networks. <i>Nature Reviews Physics</i> , 2021 , 3, 490-507 | 23.6 | 12 |

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| 64 | Physics of humans, physics for society. <i>Nature Physics</i> , 2018 , 14, 870-870 | 16.2 | 12 |
| 63 | Leveraging the Network: A Stress-Test Framework Based on DebtRank. <i>SSRN Electronic Journal</i> , 2015 , | 1 | 11 |
| 62 | Using networks to understand medical data: the case of Class III malocclusions. <i>PLoS ONE</i> , 2012 , 7, e44521 | 3.7 | 11 |
| 61 | Statistical features of drainage basins in mars channel networks. <i>European Physical Journal B</i> , 2004 , 38, 387-391 | 1.2 | 11 |
| 60 | Quantitative description and modeling of real networks. <i>Physical Review E</i> , 2003 , 68, 047101 | 2.4 | 11 |
| 59 | Sex-oriented stable matchings of the marriage problem with correlated and incomplete information. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 268-272 | 3.3 | 11 |
| 58 | (So) Big Data and the transformation of the city. <i>International Journal of Data Science and Analytics</i> , 2021 , 11, 311-340 | 2 | 11 |
| 57 | Concurrent enhancement of percolation and synchronization in adaptive networks. <i>Scientific Reports</i> , 2016 , 6, 27111 | 4.9 | 10 |
| 56 | Organization and hierarchy of the human functional brain network lead to a chain-like core. <i>Scientific Reports</i> , 2017 , 7, 4888 | 4.9 | 10 |
| 55 | Discretized diffusion processes. <i>Physical Review Letters</i> , 2000 , 85, 4848-51 | 7.4 | 10 |
| 54 | Structural changes in the interbank market across the financial crisis from multiple core-periphery analysis. <i>Journal of Network Theory in Finance</i> , 2018 , 4, 33-51 | 1.5 | 10 |
| 53 | A perspective on complexity and networks science. <i>Journal of Physics Complexity</i> , 2020 , 1, 021001 | 1.8 | 9 |
| 52 | Weighted networks as randomly reinforced urn processes. <i>Physical Review E</i> , 2013 , 87, 020106 | 2.4 | 9 |
| 51 | Mean field theory for ordinary and hot sandpiles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 252, 295-307 | 3.3 | 9 |
| 50 | A self-organized model for network evolution. <i>European Physical Journal B</i> , 2008 , 64, 585-591 | 1.2 | 9 |
| 49 | Preferential exchange: strengthening connections in complex networks. <i>Physical Review E</i> , 2004 , 70, 027102 | 2.4 | 9 |
| 48 | Understanding interactions among cephalometrics variables during growth in untreated Class III subjects. <i>European Journal of Orthodontics</i> , 2017 , 39, 395-401 | 3.3 | 8 |
| 47 | Reconstructing Mesoscale Network Structures. <i>Complexity</i> , 2019 , 2019, 1-13 | 1.6 | 8 |

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| 46 | Low-Temperature Behaviour of Social and Economic Networks. <i>Entropy</i> , 2013 , 15, 3148-3169 | 2.8 | 8 |
| 45 | Statistical properties of fractures in damaged materials. <i>Europhysics Letters</i> , 1999 , 45, 13-19 | 1.6 | 8 |
| 44 | Branching Processes and Evolution at the Ends of a Food Chain. <i>Physical Review Letters</i> , 1996 , 76, 4983-4986 | 2.4 | 8 |
| 43 | Quantifying the taxonomic diversity in real species communities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224012 | 2 | 7 |
| 42 | The Financial System as a Nexus of Interconnected Networks. <i>Understanding Complex Systems</i> , 2016 , 195-229 | 0.4 | 7 |
| 41 | The ambiguity of nestedness under soft and hard constraints. <i>Scientific Reports</i> , 2020 , 10, 19903 | 4.9 | 7 |
| 40 | Optimal positioning of storage systems in microgrids based on complex networks centrality measures. <i>Scientific Reports</i> , 2018 , 8, 16658 | 4.9 | 7 |
| 39 | The Price of Complexity in Financial Networks. <i>SSRN Electronic Journal</i> , 2015 , | 1 | 6 |
| 38 | Surface effects in invasion percolation. <i>Physical Review E</i> , 1997 , 56, R1291-R1294 | 2.4 | 6 |
| 37 | Firms' challenges and social responsibilities during Covid-19: A Twitter analysis. <i>PLoS ONE</i> , 2021 , 16, e0254748 | 5.4 | 6 |
| 36 | Entropy-based randomization of rating networks. <i>Physical Review E</i> , 2019 , 99, 022306 | 2.4 | 6 |
| 35 | From Ecology to Finance (and Back?): A Review on Entropy-Based Null Models for the Analysis of Bipartite Networks. <i>Journal of Statistical Physics</i> , 2018 , 173, 1252-1285 | 1.5 | 5 |
| 34 | Networks of plants: how to measure similarity in vegetable species. <i>Scientific Reports</i> , 2016 , 6, 27077 | 4.9 | 5 |
| 33 | Invasion percolation on a tree and queueing models. <i>Physical Review E</i> , 2009 , 79, 041133 | 2.4 | 5 |
| 32 | Invasion percolation and the time scaling behavior of a queueing model of human dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02046 | 1.9 | 5 |
| 31 | Optimal path and directed percolation. <i>Physical Review E</i> , 1996 , 53, R2029-R2032 | 2.4 | 5 |
| 30 | Critical field-exponents for secure message-passing in modular networks. <i>New Journal of Physics</i> , 2018 , 20, 053001 | 2.9 | 5 |
| 29 | Bond and site color-avoiding percolation in scale-free networks. <i>Physical Review E</i> , 2018 , 98, | 2.4 | 5 |

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| 28 | Italian Twitter semantic network during the Covid-19 epidemic. <i>EPJ Data Science</i> , 2021 , 10, 47 | 3.4 | 5 |
| 27 | Theory of boundary effects in invasion percolation. <i>Journal of Physics A</i> , 1998 , 31, 7429-7446 | | 4 |
| 26 | Probabilistic approach to the Bak-Sneppen model. <i>Physical Review E</i> , 2002 , 65, 046101 | 2.4 | 4 |
| 25 | Damage and cracking in thin mud layers. <i>Journal of Physics A</i> , 2000 , 33, 8013-8028 | | 4 |
| 24 | Reconstructing Topological Properties of Complex Networks Using the Fitness Model. <i>Lecture Notes in Computer Science</i> , 2015 , 323-333 | 0.9 | 4 |
| 23 | Distributed Generation and Resilience in Power Grids. <i>Lecture Notes in Computer Science</i> , 2013 , 71-79 | 0.9 | 4 |
| 22 | Mitigating cascades in sandpile models: an immunization strategy for systemic risk?. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 2017-2023 | 2.3 | 3 |
| 21 | Universal scaling in food-web structure? (reply). <i>Nature</i> , 2005 , 435, E4-E4 | 50.4 | 3 |
| 20 | Complexity Science for Sustainable Smart Water Grids. <i>Communications in Computer and Information Science</i> , 2017 , 26-41 | 0.3 | 2 |
| 19 | Exploiting the interplay between cross-sectional and longitudinal data in Class III malocclusion patients. <i>Scientific Reports</i> , 2019 , 9, 6189 | 4.9 | 2 |
| 18 | POPULATION DYNAMICS ON COMPLEX FOOD WEBS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2011 , 14, 635-647 | 0.8 | 2 |
| 17 | Applying weighted network measures to microarray distance matrices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224011 | 2 | 2 |
| 16 | Self-Organization and Complex Networks. <i>Understanding Complex Systems</i> , 2009 , 107-135 | 0.4 | 2 |
| 15 | Power Grids, Smart Grids and Complex Networks. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014 , 97-110 | 0.3 | 2 |
| 14 | The skeleton of the Shareholders Networks 2006 , 297-301 | | 2 |
| 13 | Fixed scale transformation for fracture growth processes governed by vectorial fields. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995 , 215, 223-232 | 3.3 | 1 |
| 12 | Why polls fail to predict elections. <i>Journal of Big Data</i> , 2021 , 8, | 11.7 | 1 |
| 11 | Financial Networks. <i>Understanding Complex Systems</i> , 2014 , 311-321 | 0.4 | 1 |

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| 10 | Structural Patterns of the Occupy Movement on Facebook. <i>Studies in Computational Intelligence</i> , 2017 , 595-606 | 0.8 | 1 |
| 9 | Portfolio diversification, differentiation and the robustness of holdings networks. <i>Applied Network Science</i> , 2020 , 5, | 2.9 | 1 |
| 8 | The unbalanced reorganization of weaker functional connections induces the altered brain network topology in schizophrenia. <i>Scientific Reports</i> , 2021 , 11, 15400 | 4.9 | 1 |
| 7 | Systemic liquidity contagion in the European interbank market. <i>Journal of Economic Interaction and Coordination</i> , ¹ | 1.1 | 1 |
| 6 | Optimal Scales in Weighted Networks. <i>Lecture Notes in Computer Science</i> , 2013 , 346-359 | 0.9 | 0 |
| 5 | Controlling systemic risk: Network structures that minimize it and node properties to calculate it. <i>Physical Review E</i> , 2021 , 103, 042304 | 2.4 | 0 |
| 4 | The Topology of Shareholding Networks. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2005 , 189-199 | 0.4 | |
| 3 | Fractal growth from local instabilities. <i>Europhysics Letters</i> , 2001 , 54, 187-193 | 1.6 | |
| 2 | Local rigidity in sandpile models. <i>Physical Review E</i> , 2002 , 66, 016133 | 2.4 | |
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