

Yamir Moreno

List of Publications by Year in descending order

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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	Complex networks: Structure and dynamics. <i>Physics Reports</i> , 2006, 424, 175-308.	10.3	8,661
2	Synchronization in complex networks. <i>Physics Reports</i> , 2008, 469, 93-153.	10.3	2,928
3	Multilayer networks. <i>Journal of Complex Networks</i> , 2014, 2, 203-271.	1.1	2,388
4	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
5	Diffusion Dynamics on Multiplex Networks. <i>Physical Review Letters</i> , 2013, 110, 028701.	2.9	738
6	Dynamics of rumor spreading in complex networks. <i>Physical Review E</i> , 2004, 69, 066130.	0.8	682
7	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
8	Theory of rumour spreading in complex social networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 374, 457-470.	1.2	591
9	Mathematical Formulation of Multilayer Networks. <i>Physical Review X</i> , 2013, 3, .	2.8	513
10	Dynamical Organization of Cooperation in Complex Topologies. <i>Physical Review Letters</i> , 2007, 98, 108103.	2.9	462
11	Explosive Synchronization Transitions in Scale-Free Networks. <i>Physical Review Letters</i> , 2011, 106, 128701.	2.9	459
12	Discrete-time Markov chain approach to contact-based disease spreading in complex networks. <i>Europhysics Letters</i> , 2010, 89, 38009.	0.7	403
13	The Dynamics of Protest Recruitment through an Online Network. <i>Scientific Reports</i> , 2011, 1, 197.	1.6	398
14	Paths to Synchronization on Complex Networks. <i>Physical Review Letters</i> , 2007, 98, 034101.	2.9	312
15	The physics of higher-order interactions in complex systems. <i>Nature Physics</i> , 2021, 17, 1093-1098.	6.5	287
16	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
17	Modeling human mobility responses to the large-scale spreading of infectious diseases. <i>Scientific Reports</i> , 2011, 1, 62.	1.6	269
18	Improved routing strategies for Internet traffic delivery. <i>Physical Review E</i> , 2004, 70, 056105.	0.8	244

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19	Synchronization of Kuramoto oscillators in scale-free networks. <i>Europhysics Letters</i> , 2004, 68, 603-609.	0.7	240
20	Broadcasters and Hidden Influentials in Online Protest Diffusion. <i>American Behavioral Scientist</i> , 2013, 57, 943-965.	2.3	227
21	Effects of mobility in a population of prisoner's dilemma players. <i>Physical Review E</i> , 2009, 79, 067101.	0.8	226
22	Evolutionary dynamics of higher-order interactions in social networks. <i>Nature Human Behaviour</i> , 2021, 5, 586-595.	6.2	222
23	Dynamics of jamming transitions in complex networks. <i>Europhysics Letters</i> , 2005, 71, 325-331.	0.7	213
24	Title is missing!. <i>European Physical Journal B</i> , 2002, 26, 521-529.	0.6	209
25	Instability of scale-free networks under node-breaking avalanches. <i>Europhysics Letters</i> , 2002, 58, 630-636.	0.7	204
26	Absence of influential spreaders in rumor dynamics. <i>Physical Review E</i> , 2012, 85, 026116.	0.8	199
27	Onymity promotes cooperation in social dilemma experiments. <i>Science Advances</i> , 2017, 3, e1601444.	4.7	199
28	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
29	Contact-based social contagion in multiplex networks. <i>Physical Review E</i> , 2013, 88, 050801.	0.8	193
30	Resilience to damage of graphs with degree correlations. <i>Physical Review E</i> , 2003, 67, 015101.	0.8	184
31	Assessing the bias in samples of large online networks. <i>Social Networks</i> , 2014, 38, 16-27.	1.3	178
32	Epidemic incidence in correlated complex networks. <i>Physical Review E</i> , 2003, 68, 035103.	0.8	176
33	Complex Cooperative Networks from Evolutionary Preferential Attachment. <i>PLoS ONE</i> , 2008, 3, e2449.	1.1	166
34	Impact of Social Punishment on Cooperative Behavior in Complex Networks. <i>Scientific Reports</i> , 2013, 3, 3055.	1.6	166
35	Critical load and congestion instabilities in scale-free networks. <i>Europhysics Letters</i> , 2003, 62, 292-298.	0.7	164
36	Traffic-driven epidemic spreading in finite-size scale-free networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16897-16902.	3.3	163

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37	Explosive First-Order Transition to Synchrony in Networked Chaotic Oscillators. <i>Physical Review Letters</i> , 2012, 108, 168702.	2.9	154
38	Robustness of cooperation in the evolutionary prisoner's dilemma on complex networks. <i>New Journal of Physics</i> , 2007, 9, 184-184.	1.2	149
39	Fundamentals of spreading processes in single and multilayer complex networks. <i>Physics Reports</i> , 2018, 756, 1-59.	10.3	145
40	Multilayer Networks in a Nutshell. <i>Annual Review of Condensed Matter Physics</i> , 2019, 10, 45-62.	5.2	133
41	Evolutionary game dynamics in a growing structured population. <i>New Journal of Physics</i> , 2009, 11, 083031.	1.2	130
42	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
43	Fracture model with variable range of interaction. <i>Physical Review E</i> , 2002, 65, 046148.	0.8	119
44	Role of centrality for the identification of influential spreaders in complex networks. <i>Physical Review E</i> , 2014, 90, 032812.	0.8	119
45	Social contagion models on hypergraphs. <i>Physical Review Research</i> , 2020, 2, .	1.3	112
46	Efficiency and reliability of epidemic data dissemination in complex networks. <i>Physical Review E</i> , 2004, 69, 055101.	0.8	111
47	Cascading behaviour in complex socio-technical networks. <i>Journal of Complex Networks</i> , 2013, 1, 3-24.	1.1	110
48	Reputation drives cooperative behaviour and network formation in human groups. <i>Scientific Reports</i> , 2015, 5, 7843.	1.6	108
49	From scale-free to Erdos-Rényi networks. <i>Physical Review E</i> , 2006, 73, 056124.	0.8	106
50	Dynamics of Interacting Diseases. <i>Physical Review X</i> , 2014, 4, .	2.8	106
51	Evolutionary dynamics on interdependent populations. <i>Physical Review E</i> , 2012, 86, 056113.	0.8	104
52	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
53	Scaling Breakdown in Flow Fluctuations on Complex Networks. <i>Physical Review Letters</i> , 2008, 100, 208701.	2.9	97
54	A Multilayer perspective for the analysis of urban transportation systems. <i>Scientific Reports</i> , 2017, 7, 44359.	1.6	95

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55	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
56	A comparative analysis of spatial Prisoner's Dilemma experiments: Conditional cooperation and payoff irrelevance. Scientific Reports, 2014, 4, 4615.	1.6	93
57	Dynamic instability of cooperation due to diverse activity patterns in evolutionary social dilemmas. Europhysics Letters, 2015, 109, 58002.	0.7	90
58	Synchronizability determined by coupling strengths and topology on complex networks. Physical Review E, 2007, 75, 066106.	0.8	86
59	Fracture and Second-Order Phase Transitions. Physical Review Letters, 2000, 85, 2865-2868.	2.9	84
60	Participatory Syndromic Surveillance of Influenza in Europe. Journal of Infectious Diseases, 2016, 214, S386-S392.	1.9	83
61	Human behavior in Prisoner's Dilemma experiments suppresses network reciprocity. Scientific Reports, 2012, 2, 325.	1.6	82
62	Nonperturbative heterogeneous mean-field approach to epidemic spreading in complex networks. Physical Review E, 2011, 84, 036105.	0.8	81
63	Structure of triadic relations in multiplex networks. New Journal of Physics, 2015, 17, 073029.	1.2	78
64	From Modular to Centralized Organization of Synchronization in Functional Areas of the Cat Cerebral Cortex. PLoS ONE, 2010, 5, e12313.	1.1	75
65	Locating privileged spreaders on an online social network. Physical Review E, 2012, 85, 066123.	0.8	73
66	Immunization of real complex communication networks. European Physical Journal B, 2006, 49, 259-264.	0.6	72
67	Social network reciprocity as a phase transition in evolutionary cooperation. Physical Review E, 2009, 79, 026106.	0.8	71
68	Topology and correlations in structured scale-free networks. Physical Review E, 2003, 67, 046111.	0.8	70
69	EFFECTS OF ENVIRONMENT KNOWLEDGE ON AGGLOMERATION AND COOPERATION IN SPATIAL PUBLIC GOODS GAMES. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 15, 1250056.	0.9	70
70	The dynamics of information-driven coordination phenomena: A transfer entropy analysis. Science Advances, 2016, 2, e1501158.	4.7	67
71	Humans display a reduced set of consistent behavioral phenotypes in dyadic games. Science Advances, 2016, 2, e1600451.	4.7	67
72	Stability of Boolean multilevel networks. Physical Review E, 2012, 86, 036115.	0.8	66

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73	Structure of peer-to-peer social networks. <i>Physical Review E</i> , 2006, 73, 036123.	0.8	65
74	Fitness for synchronization of network motifs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 343, 279-287.	1.2	63
75	The Ultimatum Game in complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P09012.	0.9	61
76	Disease spreading in structured scale-free networks. <i>European Physical Journal B</i> , 2003, 31, 265-271.	0.6	60
77	Cooperative scale-free networks despite the presence of defector hubs. <i>Europhysics Letters</i> , 2009, 88, 38003.	0.7	59
78	Empathy Emerges Spontaneously in the Ultimatum Game: Small Groups and Networks. <i>PLoS ONE</i> , 2012, 7, e43781.	1.1	59
79	Emergence of Influential Spreaders in Modified Rumor Models. <i>Journal of Statistical Physics</i> , 2013, 151, 383-393.	0.5	59
80	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
81	The Transcriptional Regulatory Network of <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2011, 6, e22178.	1.1	58
82	The role of hidden influentials in the diffusion of online information cascades. <i>EPJ Data Science</i> , 2013, 2, .	1.5	57
83	Dimensionality reduction and spectral properties of multilayer networks. <i>Physical Review E</i> , 2014, 89, 052815.	0.8	56
84	Disease Localization in Multilayer Networks. <i>Physical Review X</i> , 2017, 7, .	2.8	56
85	Influenzanet: Citizens Among 10 Countries Collaborating to Monitor Influenza in Europe. <i>JMIR Public Health and Surveillance</i> , 2017, 3, e66.	1.2	56
86	Effects of Network Structure, Competition and Memory Time on Social Spreading Phenomena. <i>Physical Review X</i> , 2016, 6, .	2.8	54
87	Natural selection of cooperation and degree hierarchy in heterogeneous populations. <i>Journal of Theoretical Biology</i> , 2008, 253, 296-301.	0.8	53
88	Cooperation in scale-free networks with limited associative capacities. <i>Physical Review E</i> , 2011, 83, 057101.	0.8	53
89	Velocity-enhanced cooperation of moving agents playing public goods games. <i>Physical Review E</i> , 2012, 85, 067101.	0.8	53
90	Phase transitions in information spreading on structured populations. <i>Nature Physics</i> , 2020, 16, 590-596.	6.5	53

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91	Multilayer Networks. SSRN Electronic Journal, 0, , .	0.4	50
92	Phase transitions and stability of dynamical processes on hypergraphs. Communications Physics, 2021, 4, .	2.0	50
93	Creep rupture has two universality classes. Europhysics Letters, 2003, 63, 347-353.	0.7	48
94	Gender Differences in Cooperation: Experimental Evidence on High School Students. PLoS ONE, 2013, 8, e83700.	1.1	48
95	Projecting social contact matrices to different demographic structures. PLoS Computational Biology, 2018, 14, e1006638.	1.5	48
96	Sentiment cascades in the 15M movement. EPJ Data Science, 2015, 4, .	1.5	46
97	Distance-dcovering problems in scale-free networks with degree correlations. Physical Review E, 2005, 71, 035102.	0.8	45
98	Criticality in Droplet Fragmentation. Physical Review Letters, 1996, 76, 42-45.	2.9	44
99	Host Mobility Drives Pathogen Competition in Spatially Structured Populations. PLoS Computational Biology, 2013, 9, e1003169.	1.5	44
100	Epidemic spreading with awareness and different timescales in multiplex networks. Physical Review E, 2019, 100, 032313.	0.8	44
101	A data-driven assessment of early travel restrictions related to the spreading of the novel COVID-19 within mainland China. Chaos, Solitons and Fractals, 2020, 139, 110068.	2.5	41
102	A novel route to cyclic dominance in voluntary social dilemmas. Journal of the Royal Society Interface, 2020, 17, 20190789.	1.5	40
103	Ten principles to integrate the water-energy-land nexus with climate services for co-producing local and regional integrated assessments. Science of the Total Environment, 2019, 693, 133662.	3.9	39
104	Multiplex Networks. SpringerBriefs in Complexity, 2018, , .	0.1	38
105	Residential segregation and cultural dissemination: An Axelrod-Schelling model. Physical Review E, 2009, 80, 046123.	0.8	37
106	LÃ©vy random walks on multiplex networks. Scientific Reports, 2016, 6, 37641.	1.6	37
107	Transition from reciprocal cooperation to persistent behaviour in social dilemmas at the end of adolescence. Nature Communications, 2014, 5, 4362.	5.8	36
108	Data-driven model for the assessment of <i>Mycobacterium tuberculosis</i> transmission in evolving demographic structures. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3238-E3245.	3.3	36

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109	Diffusion Dynamics and Optimal Coupling in Multiplex Networks with Directed Layers. <i>Physical Review X</i> , 2018, 8, .	2.8	36
110	The nested structural organization of the worldwide trade multi-layer network. <i>Scientific Reports</i> , 2019, 9, 2866.	1.6	36
111	The joint influence of competition and mutualism on the biodiversity of mutualistic ecosystems. <i>Scientific Reports</i> , 2018, 8, 9253.	1.6	35
112	Effect of memory, intolerance, and second-order reputation on cooperation. <i>Chaos</i> , 2020, 30, 063122.	1.0	35
113	Quantifying the importance and location of SARS-CoV-2 transmission events in large metropolitan areas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	35
114	The Bak-Sneppen model on scale-free networks. <i>Europhysics Letters</i> , 2002, 57, 765-771.	0.7	34
115	Local versus global knowledge in the Barabási-Albert scale-free network model. <i>Physical Review E</i> , 2004, 69, 037103.	0.8	33
116	Modeling Abnormal Priming in Alzheimer's Patients with a Free Association Network. <i>PLoS ONE</i> , 2011, 6, e22651.	1.1	32
117	Generalized synchronization in relay systems with instantaneous coupling. <i>Physical Review E</i> , 2013, 88, 052908.	0.8	31
118	Characterising two-pathogen competition in spatially structured environments. <i>Scientific Reports</i> , 2015, 5, 7895.	1.6	31
119	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
120	Breaking the Spell of Nestedness: The Entropic Origin of Nestedness in Mutualistic Systems. <i>Physical Review X</i> , 2019, 9, .	2.8	31
121	Are People Optimistically Biased about the Risk of COVID-19 Infection? Lessons from the First Wave of the Pandemic in Europe. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 436.	1.2	31
122	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
123	Epidemic spreading in random rectangular networks. <i>Physical Review E</i> , 2016, 94, 052316.	0.8	30
124	Dynamical organization towards consensus in the Axelrod model on complex networks. <i>Physical Review E</i> , 2010, 81, 056105.	0.8	28
125	On degree-degree correlations in multilayer networks. <i>Physica D: Nonlinear Phenomena</i> , 2016, 323-324, 5-11.	1.3	28
126	Effects of mass media action on the Axelrod model with social influence. <i>Physical Review E</i> , 2010, 82, 016111.	0.8	27

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127	A model for complex aftershock sequences. <i>Journal of Geophysical Research</i> , 2001, 106, 6609-6619.	3.3	26
128	Assessing the Bias in Communication Networks Sampled from Twitter. <i>SSRN Electronic Journal</i> , 0, , .	0.4	26
129	Connectivity of diagnostic technologies: improving surveillance and accelerating tuberculosis elimination. <i>International Journal of Tuberculosis and Lung Disease</i> , 2016, 20, 999-1003.	0.6	26
130	Emergence of consensus as a modular-to-nested transition in communication dynamics. <i>Scientific Reports</i> , 2017, 7, 41673.	1.6	26
131	Heterogeneous resource allocation can change social hierarchy in public goods games. <i>Royal Society Open Science</i> , 2017, 4, 170092.	1.1	26
132	The contagion effects of repeated activation in social networks. <i>Social Networks</i> , 2018, 54, 326-335.	1.3	26
133	Disease and information spreading at different speeds in multiplex networks. <i>Physical Review E</i> , 2020, 102, 022312.	0.8	26
134	SYNCHRONIZATION IN RANDOM GEOMETRIC GRAPHS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 687-693.	0.7	25
135	Self-organized criticality in a fibre-bundle-type model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 400-409.	1.2	24
136	Evolutionary dynamics of N-person Hawk-Dove games. <i>Scientific Reports</i> , 2017, 7, 4800.	1.6	24
137	Multilayer Networks: Metrics and Spectral Properties. <i>Understanding Complex Systems</i> , 2016, , 17-35.	0.3	24
138	Time to failure of hierarchical load-transfer models of fracture. <i>Physical Review E</i> , 1999, 60, 2581-2594.	0.8	23
139	Resource heterogeneity leads to unjust effort distribution in climate change mitigation. <i>PLoS ONE</i> , 2018, 13, e0204369.	1.1	23
140	Impact of the distribution of recovery rates on disease spreading in complex networks. <i>Physical Review Research</i> , 2020, 2, .	1.3	23
141	Spreading of persistent infections in heterogeneous populations. <i>Physical Review E</i> , 2010, 81, 056108.	0.8	22
142	Coevolutionary network approach to cultural dynamics controlled by intolerance. <i>Physical Review E</i> , 2011, 84, 067101.	0.8	22
143	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
144	Modelling how social network algorithms can influence opinion polarization. <i>Information Sciences</i> , 2022, 588, 265-278.	4.0	22

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145	Time dependence of breakdown in a global fiber-bundle model with continuous damage. <i>Physical Review E</i> , 2001, 63, 066106.	0.8	21
146	Time evolution of damage under variable ranges of load transfer. <i>Physical Review E</i> , 2003, 68, 026116.	0.8	21
147	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
148	Focus on multilayer networks. <i>New Journal of Physics</i> , 2020, 22, 010201.	1.2	21
149	Data-driven contact structures: From homogeneous mixing to multilayer networks. <i>PLoS Computational Biology</i> , 2020, 16, e1008035.	1.5	21
150	Unsupervised extraction of epidemic syndromes from participatory influenza surveillance self-reported symptoms. <i>PLoS Computational Biology</i> , 2019, 15, e1006173.	1.5	20
151	Probabilistic approach to time-dependent load-transfer models of fracture. <i>Physical Review E</i> , 1998, 58, 1528-1532.	0.8	19
152	Intergroup information exchange drives cooperation in the public goods game. <i>Physical Review E</i> , 2014, 90, 042808.	0.8	19
153	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
154	Physics of humans, physics for society. <i>Nature Physics</i> , 2018, 14, 870-870.	6.5	19
155	Explore with caution: mapping the evolution of scientific interest in physics. <i>EPJ Data Science</i> , 2019, 8, .	1.5	19
156	COOPERATION IN THE PRISONER'S DILEMMA GAME IN RANDOM SCALE-FREE GRAPHS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 849-857.	0.7	18
157	Scaling properties of multilayer random networks. <i>Physical Review E</i> , 2017, 96, 012307.	0.8	18
158	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
159	Selective advantage of tolerant cultural traits in the Axelrod-Schelling model. <i>Physical Review E</i> , 2011, 83, 056103.	0.8	17
160	Modeling self-sustained activity cascades in socio-technical networks. <i>Europhysics Letters</i> , 2013, 104, 48004.	0.7	16
161	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
162	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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163	Measuring nestedness: A comparative study of the performance of different metrics. <i>Ecology and Evolution</i> , 2020, 10, 11906-11921.	0.8	16
164	Link prediction in multiplex networks via triadic closure. <i>Physical Review Research</i> , 2020, 2, .	1.3	16
165	On the robustness of complex heterogeneous gene expression networks. <i>Biophysical Chemistry</i> , 2005, 115, 225-228.	1.5	15
166	Human mobility networks and persistence of rapidly mutating pathogens. <i>Royal Society Open Science</i> , 2017, 4, 160914.	1.1	15
167	Characterization of multiple topological scales in multiplex networks through supra-Laplacian eigengaps. <i>Physical Review E</i> , 2016, 94, 052318.	0.8	14
168	Cognitive Hierarchy Theory and Two-Person Games. <i>Games</i> , 2017, 8, 1.	0.4	14
169	SYNCHRONIZATION OF NETWORKS WITH VARIABLE LOCAL PROPERTIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 2501-2507.	0.7	13
170	Exploring complex networks by means of adaptive walkers. <i>Physical Review E</i> , 2012, 86, 066116.	0.8	13
171	The Role of the Organization Structure in the Diffusion of Innovations. <i>PLoS ONE</i> , 2015, 10, e0126076.	1.1	13
172	Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020, 22, 013043.	1.2	13
173	Phase transitions in load transfer models of fracture. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 296, 9-23.	1.2	12
174	The dynamics of collective social behavior in a crowd controlled game. <i>EPJ Data Science</i> , 2019, 8, .	1.5	12
175	Impact of data accuracy on the evaluation of COVID-19 mitigation policies. <i>Data & Policy</i> , 2021, 3, .	1.0	12
176	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
177	Diffusion Dynamics with Changing Network Composition. <i>Entropy</i> , 2013, 15, 4553-4568.	1.1	11
178	Evolution of microscopic and mesoscopic synchronized patterns in complex networks. <i>Chaos</i> , 2011, 21, 016105.	1.0	10
179	Topological effects of data incompleteness of gene regulatory networks. <i>BMC Systems Biology</i> , 2012, 6, 110.	3.0	10
180	Effect of network topology and node centrality on trading. <i>Scientific Reports</i> , 2020, 10, 11113.	1.6	10

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181	Role of time scale in the spreading of asymmetrically interacting diseases. <i>Physical Review Research</i> , 2021, 3, .	1.3	10
182	Prediction of new scientific collaborations through multiplex networks. <i>EPJ Data Science</i> , 2021, 10, .	1.5	10
183	From subcritical behavior to a correlation-induced transition in rumor models. <i>Nature Communications</i> , 2022, 13, .	5.8	10
184	Exact numerical solution for a time-dependent fibre-bundle model with continuous damage. <i>Journal of Physics A</i> , 2001, 34, 9983-9991.	1.6	9
185	Spectral and localization properties of random bipartite graphs. <i>Chaos, Solitons and Fractals: X</i> , 2019, 3, 100021.	1.0	9
186	Modeling Epidemic Spreading in Complex Networks: Concurrency and Traffic. <i>Springer Optimization and Its Applications</i> , 2012, , 435-462.	0.6	9
187	A Need for a Paradigm Shift in Healthy Nutrition Research. <i>Frontiers in Nutrition</i> , 2022, 9, 881465.	1.6	9
188	Impact of vaccine hesitancy on secondary COVID-19 outbreaks in the US: an age-structured SIR model. <i>BMC Infectious Diseases</i> , 2022, 22, .	1.3	9
189	Modeling the impact of COVID-19 on future tuberculosis burden. <i>Communications Medicine</i> , 2022, 2, .	1.9	9
190	Awaking and sleeping of a complex network. <i>Neural Networks</i> , 2007, 20, 102-108.	3.3	8
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