

Yamir Moreno

List of Publications by Year in Descending Order

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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.

253
papers

24,914
citations

62
h-index

156
g-index

275
ext. papers

28,955
ext. citations

4.5
avg, IF

7.27
L-index

#	Paper	IF	Citations
253	Modelling how social network algorithms can influence opinion polarization. <i>Information Sciences</i> , 2022 , 588, 265-278	7.7	4
252	Epidemic spreading in populations of mobile agents with adaptive behavioral response. <i>Chaos, Solitons and Fractals</i> , 2022 , 156, 111849	9.3	1
251	Modeling the effects of social distancing on the large-scale spreading of diseases.. <i>Epidemics</i> , 2022 , 38, 100544	5.1	1
250	A Need for a Paradigm Shift in Healthy Nutrition Research.. <i>Frontiers in Nutrition</i> , 2022 , 9, 881465	6.2	1
249	Social Contagion on Higher-Order Structures. <i>Understanding Complex Systems</i> , 2022 , 329-346	0.4	2
248	Collective Games on Hypergraphs. <i>Understanding Complex Systems</i> , 2022 , 377-388	0.4	0
247	Impact of data accuracy on the evaluation of COVID-19 mitigation policies. <i>Data & Policy</i> , 2021 , 3,	1	1
246	The physics of higher-order interactions in complex systems. <i>Nature Physics</i> , 2021 , 17, 1093-1098	16.2	36
245	Statistical properties of mutualistic-competitive random networks. <i>Chaos, Solitons and Fractals</i> , 2021 , 153, 111504	9.3	0
244	Prediction of new scientific collaborations through multiplex networks. <i>EPJ Data Science</i> , 2021 , 10,	3.4	2
243	Framing in multiple public goods games and donation to charities. <i>Royal Society Open Science</i> , 2021 , 8, 202117	3.3	1
242	Polarization inhibits the phase transition of Axelrod's model. <i>Physical Review E</i> , 2021 , 103, 062306	2.4	1
241	Unique superdiffusion induced by directionality in multiplex networks. <i>New Journal of Physics</i> , 2021 , 23, 013016	2.9	4
240	Phase transitions and stability of dynamical processes on hypergraphs. <i>Communications Physics</i> , 2021 , 4,	5.4	12
239	Role of time scale in the spreading of asymmetrically interacting diseases. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
238	Evolutionary dynamics of higher-order interactions in social networks. <i>Nature Human Behaviour</i> , 2021 , 5, 586-595	12.8	59
237	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> , 2021 , 19,	4.6	9

236	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	11.4	39
235	Effect of memory, intolerance, and second-order reputation on cooperation. <i>Chaos</i> , 2020 , 30, 063122	3.3	14
234	Quantifying uncertainty in a predictive model for popularity dynamics. <i>Physical Review E</i> , 2020 , 101, 062314	3.1	2
233	A novel route to cyclic dominance in voluntary social dilemmas. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190789	4.1	22
232	Phase transitions in information spreading on structured populations. <i>Nature Physics</i> , 2020 , 16, 590-596	16.2	16
231	Impact of the distribution of recovery rates on disease spreading in complex networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	17
230	Collective dynamics of random Janus oscillator networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
229	Social contagion models on hypergraphs. <i>Physical Review Research</i> , 2020 , 2,	3.9	54
228	Link prediction in multiplex networks via triadic closure. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
227	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	1.9	0
226	Understanding drivers when investing for impact: an experimental study. <i>Palgrave Communications</i> , 2020 , 6,	5.3	1
225	Modeling the impact of social distancing, testing, contact tracing and household quarantine on second-wave scenarios of the COVID-19 epidemic 2020 ,		63
224	Focus on multilayer networks. <i>New Journal of Physics</i> , 2020 , 22, 010201	2.9	11
223	Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020 , 22, 013043	2.9	4
222	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	9.3	26
221	Data-driven contact structures: From homogeneous mixing to multilayer networks. <i>PLoS Computational Biology</i> , 2020 , 16, e1008035	5	11
220	Impact of intra and inter-cluster coupling balance on the performance of nonlinear networked systems. <i>Chaos, Solitons and Fractals</i> , 2020 , 139, 110065	9.3	1
219	Effect of network topology and node centrality on trading. <i>Scientific Reports</i> , 2020 , 10, 11113	4.9	2

218	Measuring nestedness: A comparative study of the performance of different metrics. <i>Ecology and Evolution</i> , 2020 , 10, 11906-11921	2.8	2
217	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	12.8	333
216	Behavioural patterns behind the demise of the commons across different cultures. <i>Royal Society Open Science</i> , 2020 , 7, 201026	3.3	2
215	Disease and information spreading at different speeds in multiplex networks. <i>Physical Review E</i> , 2020 , 102, 022312	2.4	6
214	Data-driven contact structures: From homogeneous mixing to multilayer networks 2020 , 16, e1008035		
213	Data-driven contact structures: From homogeneous mixing to multilayer networks 2020 , 16, e1008035		
212	Data-driven contact structures: From homogeneous mixing to multilayer networks 2020 , 16, e1008035		
211	Data-driven contact structures: From homogeneous mixing to multilayer networks 2020 , 16, e1008035		
210	Onset of synchronization of Kuramoto oscillators in scale-free networks. <i>Physical Review E</i> , 2019 , 100, 042302	2.4	7
209	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	10.2	21
208	Analyzing a networked social algorithm for collective selection of representative committees. <i>PLoS ONE</i> , 2019 , 14, e0222945	3.7	
207	Epidemic spreading with awareness and different timescales in multiplex networks. <i>Physical Review E</i> , 2019 , 100, 032313	2.4	18
206	Unsupervised extraction of epidemic syndromes from participatory influenza surveillance self-reported symptoms. <i>PLoS Computational Biology</i> , 2019 , 15, e1006173	5	12
205	Spreading of computer viruses on time-varying networks. <i>Physical Review E</i> , 2019 , 99, 050303	2.4	2
204	The nested structural organization of the worldwide trade multi-layer network. <i>Scientific Reports</i> , 2019 , 9, 2866	4.9	21
203	Topical Alignment in Online Social Systems. <i>Frontiers in Physics</i> , 2019 , 7,	3.9	3
202	Layer degradation triggers an abrupt structural transition in multiplex networks. <i>Physical Review E</i> , 2019 , 100, 012313	2.4	3
201	Breaking the Spell of Nestedness: The Entropic Origin of Nestedness in Mutualistic Systems. <i>Physical Review X</i> , 2019 , 9,	9.1	18

200	The dynamics of collective social behavior in a crowd controlled game. <i>EPJ Data Science</i> , 2019 , 8,	3.4	6
199	Directionality reduces the impact of epidemics in multilayer networks. <i>New Journal of Physics</i> , 2019 , 21, 093026	2.9	3
198	Crash dynamics of interdependent networks. <i>Scientific Reports</i> , 2019 , 9, 14574	4.9	3
197	Explore with caution: mapping the evolution of scientific interest in physics. <i>EPJ Data Science</i> , 2019 , 8,	3.4	7
196	Spectral and localization properties of random bipartite graphs. <i>Chaos, Solitons and Fractals: X</i> , 2019 , 3, 100021	3	7
195	Bridging the gap between efficacy trials and model-based impact evaluation for new tuberculosis vaccines. <i>Nature Communications</i> , 2019 , 10, 5457	17.4	2
194	Replicator population dynamics of group interactions: Broken symmetry, thresholds for metastability, and macroscopic behavior. <i>Physical Review E</i> , 2019 , 100, 052307	2.4	3
193	Multilayer Networks in a Nutshell. <i>Annual Review of Condensed Matter Physics</i> , 2019 , 10, 45-62	19.7	75
192	Structural transition in interdependent networks with regular interconnections. <i>Physical Review E</i> , 2019 , 99, 012311	2.4	1
191	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	4
190	Analyzing a networked social algorithm for collective selection of representative committees 2019 , 14, e0222945		
189	Analyzing a networked social algorithm for collective selection of representative committees 2019 , 14, e0222945		
188	Analyzing a networked social algorithm for collective selection of representative committees 2019 , 14, e0222945		
187	Analyzing a networked social algorithm for collective selection of representative committees 2019 , 14, e0222945		
186	A general Markov chain approach for disease and rumour spreading in complex networks. <i>Journal of Complex Networks</i> , 2018 , 6, 215-242	1.7	17
185	Data-driven model for the assessment of transmission in evolving demographic structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3238-E3245	11.5	16
184	Multiplex Networks: Basic Definition and Formalism. <i>SpringerBriefs in Complexity</i> , 2018 , 7-20	0.3	2
183	Structural Organization and Transitions. <i>SpringerBriefs in Complexity</i> , 2018 , 55-71	0.3	

182	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	4.9	9
181	A networked voting rule for democratic representation. <i>Royal Society Open Science</i> , 2018 , 5, 172265	3.3	2
180	Sparse Power-Law Network Model for Reliable Statistical Predictions Based on Sampled Data. <i>Entropy</i> , 2018 , 20,	2.8	2
179	Structural Metrics. <i>SpringerBriefs in Complexity</i> , 2018 , 21-37	0.3	
178	Spectra. <i>SpringerBriefs in Complexity</i> , 2018 , 39-53	0.3	
177	The contagion effects of repeated activation in social networks. <i>Social Networks</i> , 2018 , 54, 326-335	3.9	17
176	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,	2.8	18
175	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	1.7	14
174	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	11.5	124
173	A polynomial eigenvalue approach for multiplex networks. <i>New Journal of Physics</i> , 2018 , 20, 095004	2.9	7
172	Projecting social contact matrices to different demographic structures. <i>PLoS Computational Biology</i> , 2018 , 14, e1006638	5	25
171	Resource heterogeneity leads to unjust effort distribution in climate change mitigation. <i>PLoS ONE</i> , 2018 , 13, e0204369	3.7	13
170	Diffusion Dynamics and Optimal Coupling in Multiplex Networks with Directed Layers. <i>Physical Review X</i> , 2018 , 8,	9.1	25
169	Physics of humans, physics for society. <i>Nature Physics</i> , 2018 , 14, 870-870	16.2	12
168	Robustness of cultural communities in an open-ended Axelrod model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 509, 492-500	3.3	7
167	Tensorial Representation. <i>SpringerBriefs in Complexity</i> , 2018 , 87-112	0.3	1
166	Multiplex Networks. <i>SpringerBriefs in Complexity</i> , 2018 ,	0.3	23
165	Fundamentals of spreading processes in single and multilayer complex networks. <i>Physics Reports</i> , 2018 , 756, 1-59	27.7	91

164	The joint influence of competition and mutualism on the biodiversity of mutualistic ecosystems. <i>Scientific Reports</i> , 2018 , 8, 9253	4.9	23
163	Emergence of consensus as a modular-to-nested transition in communication dynamics. <i>Scientific Reports</i> , 2017 , 7, 41673	4.9	21
162	Disease Localization in Multilayer Networks. <i>Physical Review X</i> , 2017 , 7,	9.1	41
161	Human mobility networks and persistence of rapidly mutating pathogens. <i>Royal Society Open Science</i> , 2017 , 4, 160914	3.3	11
160	Onymity promotes cooperation in social dilemma experiments. <i>Science Advances</i> , 2017 , 3, e1601444	14.3	155
159	A Multilayer perspective for the analysis of urban transportation systems. <i>Scientific Reports</i> , 2017 , 7, 44359	4.9	53
158	Heterogeneous resource allocation can change social hierarchy in public goods games. <i>Royal Society Open Science</i> , 2017 , 4, 170092	3.3	17
157	Evolutionary dynamics of N-person Hawk-Dove games. <i>Scientific Reports</i> , 2017 , 7, 4800	4.9	10
156	Scaling properties of multilayer random networks. <i>Physical Review E</i> , 2017 , 96, 012307	2.4	16
155	Diluted banded random matrices: scaling behavior of eigenfunction and spectral properties. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 495205	2	7
154	Cognitive Hierarchy Theory and Two-Person Games. <i>Games</i> , 2017 , 8, 1	0.9	10
153	Influenzanet: Citizens Among 10 Countries Collaborating to Monitor Influenza in Europe. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e66	11.4	39
152	Epidemic spreading in random rectangular networks. <i>Physical Review E</i> , 2016 , 94, 052316	2.4	23
151	The dynamics of information-driven coordination phenomena: A transfer entropy analysis. <i>Science Advances</i> , 2016 , 2, e1501158	14.3	54
150	Participatory Syndromic Surveillance of Influenza in Europe. <i>Journal of Infectious Diseases</i> , 2016 , 214, S386-S392	7	49
149	Effects of Network Structure, Competition and Memory Time on Social Spreading Phenomena. <i>Physical Review X</i> , 2016 , 6,	9.1	45
148	Humans display a reduced set of consistent behavioral phenotypes in dyadic games. <i>Science Advances</i> , 2016 , 2, e1600451	14.3	48
147	On degree-degree correlations in multilayer networks. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 323-324, 5-11	3.3	19

146	On the impact of masking and blocking hypotheses for measuring the efficacy of new tuberculosis vaccines. <i>PeerJ</i> , 2016 , 4, e1513	3.1	15
145	Multilayer Networks: Metrics and Spectral Properties. <i>Understanding Complex Systems</i> , 2016 , 17-35	0.4	19
144	Connectivity of diagnostic technologies: improving surveillance and accelerating tuberculosis elimination. <i>International Journal of Tuberculosis and Lung Disease</i> , 2016 , 20, 999-1003	2.1	17
143	Characterization of multiple topological scales in multiplex networks through supra-Laplacian eigengaps. <i>Physical Review E</i> , 2016 , 94, 052318	2.4	12
142	Long random walks on multiplex networks. <i>Scientific Reports</i> , 2016 , 6, 37641	4.9	26
141	From degree-correlated to payoff-correlated activity for an optimal resolution of social dilemmas. <i>Physical Review E</i> , 2016 , 94, 062315	2.4	19
140	Reputation drives cooperative behaviour and network formation in human groups. <i>Scientific Reports</i> , 2015 , 5, 7843	4.9	80
139	Characterising two-pathogen competition in spatially structured environments. <i>Scientific Reports</i> , 2015 , 5, 7895	4.9	20
138	Structure of triadic relations in multiplex networks. <i>New Journal of Physics</i> , 2015 , 17, 073029	2.9	54
137	Dynamic instability of cooperation due to diverse activity patterns in evolutionary social dilemmas. <i>Europhysics Letters</i> , 2015 , 109, 58002	1.6	82
136	The role of the organization structure in the diffusion of innovations. <i>PLoS ONE</i> , 2015 , 10, e0126076	3.7	12
135	Sentiment cascades in the 15M movement. <i>EPJ Data Science</i> , 2015 , 4,	3.4	36
134	Online networks and the diffusion of protest 2014 , 261-278		4
133	Intergroup information exchange drives cooperation in the public goods game. <i>Physical Review E</i> , 2014 , 90, 042808	2.4	16
132	Transition from reciprocal cooperation to persistent behaviour in social dilemmas at the end of adolescence. <i>Nature Communications</i> , 2014 , 5, 4362	17.4	29
131	Dimensionality reduction and spectral properties of multilayer networks. <i>Physical Review E</i> , 2014 , 89, 052815	2.4	49
130	Assessing the bias in samples of large online networks. <i>Social Networks</i> , 2014 , 38, 16-27	3.9	137
129	A comparative analysis of spatial Prisoner's Dilemma experiments: conditional cooperation and payoff irrelevance. <i>Scientific Reports</i> , 2014 , 4, 4615	4.9	74

128	Multilayer networks. <i>Journal of Complex Networks</i> , 2014 , 2, 203-271	1.7	1760
127	Role of centrality for the identification of influential spreaders in complex networks. <i>Physical Review E</i> , 2014 , 90, 032812	2.4	91
126	Dynamics of Interacting Diseases. <i>Physical Review X</i> , 2014 , 4,	9.1	88
125	The Spanish Indignados Movement: Time Dynamics, Geographical Distribution, and Recruitment Mechanisms. <i>Lecture Notes in Social Networks</i> , 2014 , 155-177	0.6	2
124	Emergence of Influential Spreaders in Modified Rumor Models. <i>Journal of Statistical Physics</i> , 2013 , 151, 383-393	1.5	45
123	The role of hidden influentials in the diffusion of online information cascades. <i>EPJ Data Science</i> , 2013 , 2,	3.4	51
122	Diffusion dynamics on multiplex networks. <i>Physical Review Letters</i> , 2013 , 110, 028701	7.4	604
121	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	3.3	86
120	Cooperation in changing environments: Irreversibility in the transition to cooperation in complex networks. <i>Chaos, Solitons and Fractals</i> , 2013 , 56, 188-193	9.3	9
119	Broadcasters and Hidden Influentials in Online Protest Diffusion. <i>American Behavioral Scientist</i> , 2013 , 57, 943-965	1.8	177
118	Evolutionary dynamics of group interactions on structured populations: a review. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120997	4.1	815
117	Mathematical Formulation of Multilayer Networks. <i>Physical Review X</i> , 2013 , 3,	9.1	376
116	Diffusion Dynamics with Changing Network Composition. <i>Entropy</i> , 2013 , 15, 4553-4568	2.8	8
115	Host mobility drives pathogen competition in spatially structured populations. <i>PLoS Computational Biology</i> , 2013 , 9, e1003169	5	34
114	Impact of social punishment on cooperative behavior in complex networks. <i>Scientific Reports</i> , 2013 , 3, 3055	4.9	148
113	Cascading behaviour in complex socio-technical networks. <i>Journal of Complex Networks</i> , 2013 , 1, 3-24	1.7	84
112	Modeling self-sustained activity cascades in socio-technical networks. <i>Europhysics Letters</i> , 2013 , 104, 48004	1.6	15
111	Contact-based social contagion in multiplex networks. <i>Physical Review E</i> , 2013 , 88, 050801	2.4	167

110	Generalized synchronization in relay systems with instantaneous coupling. <i>Physical Review E</i> , 2013 , 88, 052908	2.4	27
109	Data reliability in complex directed networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013 , 2013, P12008	1.9	1
108	Multilayer Networks. <i>SSRN Electronic Journal</i> , 2013 ,	1	38
107	Gender differences in cooperation: experimental evidence on high school students. <i>PLoS ONE</i> , 2013 , 8, e83700	3.7	32
106	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, 12922-6	11.5	232
105	Evolutionary dynamics on interdependent populations. <i>Physical Review E</i> , 2012 , 86, 056113	2.4	97
104	Topological effects of data incompleteness of gene regulatory networks. <i>BMC Systems Biology</i> , 2012 , 6, 110	3.5	8
103	Absence of influential spreaders in rumor dynamics. <i>Physical Review E</i> , 2012 , 85, 026116	2.4	166
102	Empathy emerges spontaneously in the ultimatum game: small groups and networks. <i>PLoS ONE</i> , 2012 , 7, e43781	3.7	22
101	Assessing the Bias in Communication Networks Sampled from Twitter. <i>SSRN Electronic Journal</i> , 2012 ,	1	14
100	Broadcasters and Hidden Influentials in Online Protest Diffusion. <i>SSRN Electronic Journal</i> , 2012 ,	1	7
99	Locating privileged spreaders on an online social network. <i>Physical Review E</i> , 2012 , 85, 066123	2.4	60
98	Exploring complex networks by means of adaptive walkers. <i>Physical Review E</i> , 2012 , 86, 066116	2.4	8
97	Velocity-enhanced cooperation of moving agents playing public goods games. <i>Physical Review E</i> , 2012 , 85, 067101	2.4	41
96	Stability of Boolean multilevel networks. <i>Physical Review E</i> , 2012 , 86, 036115	2.4	56
95	Explosive first-order transition to synchrony in networked chaotic oscillators. <i>Physical Review Letters</i> , 2012 , 108, 168702	7.4	126
94	TOPOLOGICAL VERSUS DYNAMICAL ROBUSTNESS IN A LEXICAL NETWORK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250157	2	4
93	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	0.8	63

92	DYNAMICS OF PERSISTENT INFECTIONS IN HOMOGENEOUS POPULATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250164	2	2
91	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	2	2
90	Human behavior in Prisoner's Dilemma experiments suppresses network reciprocity. <i>Scientific Reports</i> , 2012 , 2, 325	4.9	70
89	Modeling Epidemic Spreading in Complex Networks: Concurrency and Traffic. <i>Springer Optimization and Its Applications</i> , 2012 , 435-462	0.4	6
88	Growing Networks Driven by the Evolutionary Prisoner's Dilemma Game. <i>Springer Optimization and Its Applications</i> , 2012 , 115-136	0.4	3
87	Nonperturbative heterogeneous mean-field approach to epidemic spreading in complex networks. <i>Physical Review E</i> , 2011 , 84, 036105	2.4	70
86	Selective advantage of tolerant cultural traits in the Axelrod-Schelling model. <i>Physical Review E</i> , 2011 , 83, 056103	2.4	16
85	The transcriptional regulatory network of Mycobacterium tuberculosis. <i>PLoS ONE</i> , 2011 , 6, e22178	3.7	40
84	Modeling abnormal priming in Alzheimer's patients with a free association network. <i>PLoS ONE</i> , 2011 , 6, e22651	3.7	25
83	Structural and dynamical patterns on online social networks: the Spanish May 15th movement as a case study. <i>PLoS ONE</i> , 2011 , 6, e23883	3.7	109
82	Modeling human mobility responses to the large-scale spreading of infectious diseases. <i>Scientific Reports</i> , 2011 , 1, 62	4.9	233
81	The dynamics of protest recruitment through an online network. <i>Scientific Reports</i> , 2011 , 1, 197	4.9	311
80	Coordination and growth: the Stag Hunt game on evolutionary networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P05008	1.9	13
79	Cooperation in scale-free networks with limited associative capacities. <i>Physical Review E</i> , 2011 , 83, 057101	4.4	51
78	Explosive synchronization transitions in scale-free networks. <i>Physical Review Letters</i> , 2011 , 106, 128701	7.4	350
77	Coevolutionary network approach to cultural dynamics controlled by intolerance. <i>Physical Review E</i> , 2011 , 84, 067101	2.4	20
76	Evolution of microscopic and mesoscopic synchronized patterns in complex networks. <i>Chaos</i> , 2011 , 21, 016105	3.3	9
75	From modular to centralized organization of synchronization in functional areas of the cat cerebral cortex. <i>PLoS ONE</i> , 2010 , 5, e12313	3.7	64

74	Spreading of persistent infections in heterogeneous populations. <i>Physical Review E</i> , 2010 , 81, 056108	2.4	18
73	Dynamical organization towards consensus in the Axelrod model on complex networks. <i>Physical Review E</i> , 2010 , 81, 056105	2.4	28
72	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	2	15
71	Discrete-time Markov chain approach to contact-based disease spreading in complex networks. <i>Europhysics Letters</i> , 2010 , 89, 38009	1.6	311
70	Effects of mass media action on the Axelrod model with social influence. <i>Physical Review E</i> , 2010 , 82, 016111	2.4	25
69	Effects of mobility in a population of prisoner's dilemma players. <i>Physical Review E</i> , 2009 , 79, 067101	2.4	191
68	Residential segregation and cultural dissemination: an Axelrod-Schelling model. <i>Physical Review E</i> , 2009 , 80, 046123	2.4	32
67	SYNCHRONIZATION IN RANDOM GEOMETRIC GRAPHS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009 , 19, 687-693	2	24
66	The Ultimatum Game in complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P09012	1.9	43
65	Evolutionary game dynamics in a growing structured population. <i>New Journal of Physics</i> , 2009 , 11, 083031	1.9	116
64	Cooperative scale-free networks despite the presence of defector hubs. <i>Europhysics Letters</i> , 2009 , 88, 38003	1.6	53
63	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, 16897-902	11.5	134
62	Social network reciprocity as a phase transition in evolutionary cooperation. <i>Physical Review E</i> , 2009 , 79, 026106	2.4	64
61	Complex Network Modeling: A New Approach to Neurosciences 2009 , 241-263		
60	Complex cooperative networks from evolutionary preferential attachment. <i>PLoS ONE</i> , 2008 , 3, e2449	3.7	146
59	Spreading of sexually transmitted diseases in heterosexual populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1399-404	11.5	87
58	Dynamics of gossip-like information dissemination in complex computer networks. <i>International Journal of Computer Mathematics</i> , 2008 , 85, 1165-1173	1.2	2
57	Scaling breakdown in flow fluctuations on complex networks. <i>Physical Review Letters</i> , 2008 , 100, 208701	7.4	88

56	Synchronization in complex networks. <i>Physics Reports</i> , 2008 , 469, 93-153	27.7	2392
55	Natural selection of cooperation and degree hierarchy in heterogeneous populations. <i>Journal of Theoretical Biology</i> , 2008 , 253, 296-301	2.3	50
54	Awaking and sleeping of a complex network. <i>Neural Networks</i> , 2007 , 20, 102-8	9.1	6
53	Theory of rumour spreading in complex social networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 374, 457-470	3.3	465
52	SYNCHRONIZATION OF NETWORKS WITH VARIABLE LOCAL PROPERTIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 2501-2507	2	12
51	Robustness of cooperation in the evolutionary prisoner's dilemma on complex networks. <i>New Journal of Physics</i> , 2007 , 9, 184-184	2.9	133
50	Dynamical organization of cooperation in complex topologies. <i>Physical Review Letters</i> , 2007 , 98, 108103	7.4	409
49	Synchronizability determined by coupling strengths and topology on complex networks. <i>Physical Review E</i> , 2007 , 75, 066106	2.4	78
48	Paths to synchronization on complex networks. <i>Physical Review Letters</i> , 2007 , 98, 034101	7.4	269
47	From scale-free to Erdos-Rényi networks. <i>Physical Review E</i> , 2006 , 73, 056124	2.4	87
46	Scale-free topologies and activatory-inhibitory interactions. <i>Chaos</i> , 2006 , 16, 015114	3.3	7
45	Structure of peer-to-peer social networks. <i>Physical Review E</i> , 2006 , 73, 036123	2.4	57
44	Complex networks: Structure and dynamics. <i>Physics Reports</i> , 2006 , 424, 175-308	27.7	6980
43	Immunization of real complex communication networks. <i>European Physical Journal B</i> , 2006 , 49, 259-264	1.2	62
42	Michaelis-Menten dynamics in complex heterogeneous networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 352, 265-281	3.3	3
41	On the robustness of complex heterogeneous gene expression networks. <i>Biophysical Chemistry</i> , 2005 , 115, 225-8	3.5	11
40	Dynamics of jamming transitions in complex networks. <i>Europhysics Letters</i> , 2005 , 71, 325-331	1.6	177
39	Distance-d covering problems in scale-free networks with degree correlations. <i>Physical Review E</i> , 2005 , 71, 035102	2.4	40

38	Local versus global knowledge in the Barabási-Albert scale-free network model. <i>Physical Review E</i> , 2004 , 69, 037103	2.4	27
37	Improved routing strategies for Internet traffic delivery. <i>Physical Review E</i> , 2004 , 70, 056105	2.4	206
36	Efficiency and reliability of epidemic data dissemination in complex networks. <i>Physical Review E</i> , 2004 , 69, 055101	2.4	89
35	Synchronization of Kuramoto oscillators in scale-free networks. <i>Europhysics Letters</i> , 2004 , 68, 603-609	1.6	211
34	Fitness for synchronization of network motifs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 343, 279-287	3.3	49
33	Dynamics of rumor spreading in complex networks. <i>Physical Review E</i> , 2004 , 69, 066130	2.4	526
32	Creep rupture has two universality classes. <i>Europhysics Letters</i> , 2003 , 63, 347-353	1.6	44
31	Critical load and congestion instabilities in scale-free networks. <i>Europhysics Letters</i> , 2003 , 62, 292-298	1.6	137
30	Disease spreading in structured scale-free networks. <i>European Physical Journal B</i> , 2003 , 31, 265-271	1.2	52
29	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	1.2	
28	Size dependency of tension strength in natural fiber composites. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 325, 547-560	3.3	27
27	Resilience to damage of graphs with degree correlations. <i>Physical Review E</i> , 2003 , 67, 015101	2.4	160
26	Epidemic incidence in correlated complex networks. <i>Physical Review E</i> , 2003 , 68, 035103	2.4	147
25	Time evolution of damage under variable ranges of load transfer. <i>Physical Review E</i> , 2003 , 68, 026116	2.4	15
24	Topology and correlations in structured scale-free networks. <i>Physical Review E</i> , 2003 , 67, 046111	2.4	61
23	Fracture model with variable range of interaction. <i>Physical Review E</i> , 2002 , 65, 046148	2.4	94
22	Instability of scale-free networks under node-breaking avalanches. <i>Europhysics Letters</i> , 2002 , 58, 630-636	1.6	163
21	The Bak-Sneppen model on scale-free networks. <i>Europhysics Letters</i> , 2002 , 57, 765-771	1.6	31

20	. <i>European Physical Journal B</i> , 2002 , 26, 521-529	1.2	174
19	Phase transitions in load transfer models of fracture. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 296, 9-23	3.3	11
18	Exact numerical solution for a time-dependent fibre-bundle model with continuous damage. <i>Journal of Physics A</i> , 2001 , 34, 9983-9991		8
17	Time dependence of breakdown in a global fiber-bundle model with continuous damage. <i>Physical Review E</i> , 2001 , 63, 066106	2.4	20
16	A model for complex aftershock sequences. <i>Journal of Geophysical Research</i> , 2001 , 106, 6609-6619		23
15	Fracture and second-order phase transitions. <i>Physical Review Letters</i> , 2000 , 85, 2865-8	7.4	77
14	Modified renormalization strategy for sandpile models. <i>Physical Review E</i> , 1999 , 60, 7565-8	2.4	4
13	Bounds for the time to failure of hierarchical systems of fracture. <i>Physical Review E</i> , 1999 , 59, R1287-R1290	2.4	3
12	Time to failure of hierarchical load-transfer models of fracture. <i>Physical Review E</i> , 1999 , 60, 2581-94	2.4	20
11	Self-organized criticality in a fibre-bundle-type model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 274, 400-409	3.3	21
10	Probabilistic approach to time-dependent load-transfer models of fracture. <i>Physical Review E</i> , 1998 , 58, 1528-1532	2.4	16
9	Criticality in droplet fragmentation. <i>Physical Review Letters</i> , 1996 , 76, 42-45	7.4	41
8	Measuring Nestedness: A comparative study of the performance of different metrics		1
7	Are people excessively pessimistic about the risk of coronavirus infection?		25
6	Dynamics of heuristics selection for cooperative behaviour. <i>New Journal of Physics</i> ,	2.9	3
5	Evaluation of the potential incidence of COVID-19 and effectiveness of contention measures in Spain: a data-driven approach		6
4	A data-driven assessment of early travel restrictions related to the spreading of the novel COVID-19 within mainland China		3
3	Impact of the accuracy of case-based surveillance data on the estimation of time-varying reproduction numbers		3

2	Quantifying the importance and location of SARS-CoV-2 transmission events in large metropolitan areas	4
1	Data-driven estimate of SARS-CoV-2 herd immunity threshold in populations with individual contact pattern variations	7