

Alex Arenas

List of Publications by Year in descending order

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Version: 2024-02-01

216
papers

26,156
citations

16437

64
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6465

157
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230
all docs

230
docs citations

230
times ranked

13806
citing authors

#	ARTICLE	IF	CITATIONS
1	Behavioural response to heterogeneous severity of COVID-19 explains temporal variation of cases among different age groups. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210119.	1.6	10
2	Symmetry-breaking mechanism for the formation of cluster chimera patterns. Chaos, 2022, 32, 013107.	1.0	7
3	Percolation in networks with local homeostatic plasticity. Nature Communications, 2022, 13, 122.	5.8	3
4	Homophily impacts the success of vaccine roll-outs. Communications Physics, 2022, 5, .	2.0	13
5	Modeling Communicable Diseases, Human Mobility, and Epidemics: A Review. Annalen Der Physik, 2022, 534, .	0.9	9
6	Contagion—diffusion processes with recurrent mobility patterns of distinguishable agents. Chaos, 2022, 32, 043102.	1.0	3
7	The interconnection between independent reactive control policies drives the stringency of local containment. Chaos, Solitons and Fractals, 2022, 158, 112012.	2.5	1
8	Diffusion and Synchronization Dynamics Reveal the Multi-Scale Patterns of Spatial Segregation. Frontiers in Physics, 2022, 10, .	1.0	1
9	Emergence of protective behaviour under different risk perceptions to disease spreading. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	4
10	A population-based controlled experiment assessing the epidemiological impact of digital contact tracing. Nature Communications, 2021, 12, 587.	5.8	98
11	Virus spread versus contact tracing: Two competing contagion processes. Physical Review Research, 2021, 3, .	1.3	23
12	Message-passing approach to epidemic tracing and mitigation with apps. Physical Review Research, 2021, 3, .	1.3	35
13	Explainable, automated urban interventions to improve pedestrian and vehicle safety. Transportation Research Part C: Emerging Technologies, 2021, 125, 103018.	3.9	18
14	Modeling financial distress propagation on customer—supplier networks. Chaos, 2021, 31, 053119.	1.0	3
15	Network clique cover approximation to analyze complex contagions through group interactions. Communications Physics, 2021, 4, .	2.0	31
16	Geometric unfolding of synchronization dynamics on networks. Chaos, 2021, 31, 061105.	1.0	6
17	Infectious disease dynamics in metapopulations with heterogeneous transmission and recurrent mobility. New Journal of Physics, 2021, 23, 073019.	1.2	16
18	Interplay between population density and mobility in determining the spread of epidemics in cities. Communications Physics, 2021, 4, .	2.0	30

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19	Homophily in the adoption of digital proximity tracing apps shapes the evolution of epidemics. Physical Review Research, 2021, 3, .	1.3	11
20	Memory selection and information switching in oscillator networks with higher-order interactions. Journal of Physics Complexity, 2021, 2, 015003.	0.9	14
21	Higher-order interactions can better optimize network synchronization. Physical Review Research, 2021, 3, .	1.3	32
22	Evolution of Cooperation in the Presence of Higher-Order Interactions: From Networks to Hypergraphs. Entropy, 2020, 22, 744.	1.1	31
23	Higher order interactions in complex networks of phase oscillators promote abrupt synchronization switching. Communications Physics, 2020, 3, .	2.0	131
24	Modeling the Spatiotemporal Epidemic Spreading of COVID-19 and the Impact of Mobility and Social Distancing Interventions. Physical Review X, 2020, 10, .	2.8	85
25	Expertsâ€™ request to the Spanish Government: move Spain towards complete lockdown. Lancet, The, 2020, 395, 1193-1194.	6.3	63
26	Uncertainty propagation in complex networks: From noisy links to critical properties. Chaos, 2020, 30, 023129.	1.0	2
27	Impact of temporal scales and recurrent mobility patterns on the unfolding of epidemics. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 024006.	0.9	22
28	Abrupt phase transition of epidemic spreading in simplicial complexes. Physical Review Research, 2020, 2, .	1.3	90
29	A framework for the construction of generative models for mesoscale structure in multilayer networks. Physical Review Research, 2020, 2, .	1.3	23
30	Pulsating campaigns of human prophylaxis driven by risk perception palliate oscillations of direct contact transmitted diseases. Physical Review Research, 2020, 2, .	1.3	17
31	Functional strengthening through synaptic scaling upon connectivity disruption in neuronal cultures. Network Neuroscience, 2020, 4, 1160-1180.	1.4	5
32	Spontaneous Functional Recovery after Focal Damage in Neuronal Cultures. ENeuro, 2020, 7, ENEURO.0254-19.2019.	0.9	13
33	Epidemic spreading: Tailored models for COVID-19. Europhysics News, 2020, 51, 38-40.	0.1	0
34	â€œMeltingâ€ of complex networks. A mathematical model of complex networks resilience to external stress. Applied Mathematics and Computation, 2019, 362, 124579.	1.4	3
35	A validated single-cell-based strategy to identify diagnostic and therapeutic targets in complex diseases. Genome Medicine, 2019, 11, 47.	3.6	68
36	Explosive phenomena in complex networks. Advances in Physics, 2019, 68, 123-223.	35.9	125

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37	Exact Rank Reduction of Network Models. <i>Physical Review X</i> , 2019, 9, .	2.8	0
38	V Mediterranean School of Complex Networks. <i>Journal of Complex Networks</i> , 2019, 7, 306-314.	1.1	0
39	Effect of shortest path multiplicity on congestion of multiplex networks. <i>New Journal of Physics</i> , 2019, 21, 035003.	1.2	22
40	Abrupt Desynchronization and Extensive Multistability in Globally Coupled Oscillator Simplexes. <i>Physical Review Letters</i> , 2019, 122, 248301.	2.9	161
41	The multiplex network of human diseases. <i>Npj Systems Biology and Applications</i> , 2019, 5, 15.	1.4	77
42	Endemicity and prevalence of multipartite viruses under heterogeneous between-host transmission. <i>PLoS Computational Biology</i> , 2019, 15, e1006876.	1.5	10
43	Impact of origin-destination information in epidemic spreading. <i>Scientific Reports</i> , 2019, 9, 2315.	1.6	11
44	Fragility and anomalous susceptibility of weakly interacting networks. <i>Physical Review E</i> , 2019, 99, 042302.	0.8	5
45	Mapping individual behavior in financial markets: synchronization and anticipation. <i>EPJ Data Science</i> , 2019, 8, .	1.5	9
46	Centralized and distributed cognitive task processing in the human connectome. <i>Network Neuroscience</i> , 2019, 3, 455-474.	1.4	30
47	Assessing the risk of default propagation in interconnected sectoral financial networks. <i>EPJ Data Science</i> , 2019, 8, .	1.5	15
48	Topological melting in networks of granular materials. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 875-894.	0.7	3
49	Cascading failures in interdependent systems under a flow redistribution model. <i>Physical Review E</i> , 2018, 97, 022307.	0.8	42
50	Decongestion of Urban Areas with Hotspot Pricing. <i>Networks and Spatial Economics</i> , 2018, 18, 33-50.	0.7	26
51	Evolving activity cascades on socio-technological networks. <i>Journal of Computational Social Science</i> , 2018, 1, 67-79.	1.4	3
52	Critical regimes driven by recurrent mobility patterns of reaction–diffusion processes in networks. <i>Nature Physics</i> , 2018, 14, 391-395.	6.5	106
53	Interplay between cost and benefits triggers nontrivial vaccination uptake. <i>Physical Review E</i> , 2018, 97, 032308.	0.8	17
54	Centralities of nodes and influences of layers in large multiplex networks. <i>Journal of Complex Networks</i> , 2018, 6, 733-752.	1.1	48

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55	Effective approach to epidemic containment using link equations in complex networks. Science Advances, 2018, 4, eaau4212.	4.7	79
56	Synchronization invariance under network structural transformations. Physical Review E, 2018, 97, 060301.	0.8	8
57	Multiple structural transitions in interacting networks. Physical Review E, 2018, 98, 012302.	0.8	4
58	Spreading Processes in Multiplex Metapopulations Containing Different Mobility Networks. Physical Review X, 2018, 8, .	2.8	40
59	A network approach to decentralized coordination of energy production-consumption grids. PLoS ONE, 2018, 13, e0191495.	1.1	2
60	Modeling structure and resilience of the dark network. Physical Review E, 2017, 95, 022313.	0.8	28
61	Collective Phenomena Emerging from the Interactions between Dynamical Processes in Multiplex Networks. Physical Review Letters, 2017, 118, 138302.	2.9	107
62	Clustering determines the dynamics of complex contagions in multiplex networks. Physical Review E, 2017, 95, 012312.	0.8	23
63	Influence of trust in the spreading of information. Physical Review E, 2017, 95, 012301.	0.8	30
64	Evaluating the impact of interdisciplinary research: A multilayer network approach. Network Science, 2017, 5, 235-246.	0.8	21
65	A Mechanistic Model of Human Recall of Social Network Structure and Relationship Affect. Scientific Reports, 2017, 7, 17133.	1.6	55
66	Mapping Multiplex Hubs in Human Functional Brain Networks. Frontiers in Neuroscience, 2016, 10, 326.	1.4	121
67	Functional Multiplex PageRank. Europhysics Letters, 2016, 116, 28004.	0.7	47
68	Detection of timescales in evolving complex systems. Scientific Reports, 2016, 6, 39713.	1.6	37
69	A model to identify urban traffic congestion hotspots in complex networks. Royal Society Open Science, 2016, 3, 160098.	1.1	39
70	On controlling networks of limit-cycle oscillators. Chaos, 2016, 26, 094812.	1.0	9
71	Quantifying the diaspora of knowledge in the last century. Applied Network Science, 2016, 1, 15.	0.8	17
72	Untangling the role of diverse social dimensions in the diffusion of microfinance. Applied Network Science, 2016, 1, 14.	0.8	8

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73	EU cash goes to the sticky and attractive. Nature, 2016, 531, 580-580.	13.7	6
74	Random walk centrality in interconnected multilayer networks. Physica D: Nonlinear Phenomena, 2016, 323-324, 73-79.	1.3	75
75	Erosion of synchronization: Coupling heterogeneity and network structure. Physica D: Nonlinear Phenomena, 2016, 323-324, 40-48.	1.3	10
76	Assessing reliable human mobility patterns from higher order memory in mobile communications. Journal of the Royal Society Interface, 2016, 13, 20160203.	1.5	27
77	The physics of spreading processes in multilayer networks. Nature Physics, 2016, 12, 901-906.	6.5	430
78	The dynamics of information-driven coordination phenomena: A transfer entropy analysis. Science Advances, 2016, 2, e1501158.	4.7	67
79	Collective frequency variation in network synchronization and reverse PageRank. Physical Review E, 2016, 93, 042314.	0.8	11
80	Congestion Induced by the Structure of Multiplex Networks. Physical Review Letters, 2016, 116, 108701.	2.9	107
81	Bond Percolation on Multiplex Networks. Physical Review X, 2016, 6, .	2.8	46
82	Multiplex social ecological network analysis reveals how social changes affect community robustness more than resource depletion. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13708-13713.	3.3	114
83	A Tipping Point in the Structural Formation of Interconnected Networks. Understanding Complex Systems, 2016, , 1-15.	0.3	0
84	Benchmark model to assess community structure in evolving networks. Physical Review E, 2015, 92, 012805.	0.8	60
85	Enhancing the stability of the synchronization of multivariable coupled oscillators. Physical Review E, 2015, 92, 032804.	0.8	20
86	Control of coupled oscillator networks with application to microgrid technologies. Science Advances, 2015, 1, e1500339.	4.7	82
87	Strategical incoherence regulates cooperation in social dilemmas on multiplex networks. Scientific Reports, 2015, 5, 9519.	1.6	36
88	Characterizing interactions in online social networks during exceptional events. Frontiers in Physics, 2015, 3, .	1.0	48
89	Information transfer in community structured multiplex networks. Frontiers in Physics, 2015, 3, .	1.0	7
90	Personalized routing for multitudes in smart cities. EPJ Data Science, 2015, 4, .	1.5	41

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91	Layer-layer competition in multiplex complex networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150117.	1.6	19
92	Erosion of synchronization in networks of coupled oscillators. Physical Review E, 2015, 91, 010802.	0.8	52
93	Quantifying sudden changes in dynamical systems using symbolic networks. New Journal of Physics, 2015, 17, 023068.	1.2	26
94	Identifying Modular Flows on Multilayer Networks Reveals Highly Overlapping Organization in Interconnected Systems. Physical Review X, 2015, 5, .	2.8	178
95	Ranking in interconnected multilayer networks reveals versatile nodes. Nature Communications, 2015, 6, 6868.	5.8	276
96	Structural reducibility of multilayer networks. Nature Communications, 2015, 6, 6864.	5.8	400
97	Structure of triadic relations in multiplex networks. New Journal of Physics, 2015, 17, 073029.	1.2	78
98	MuxViz: a tool for multilayer analysis and visualization of networks. Journal of Complex Networks, 2015, 3, 159-176.	1.1	271
99	Multilayer networks. Journal of Complex Networks, 2014, 2, 203-271.	1.1	2,388
100	Emergence of Assortative Mixing between Clusters of Cultured Neurons. PLoS Computational Biology, 2014, 10, e1003796.	1.5	61
101	Centrality rankings in multiplex networks. , 2014, , .		82
102	Navigability of interconnected networks under random failures. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8351-8356.	3.3	350
103	Atapuerca: evolution of scientific collaboration in an emergent large-scale research infrastructure. Scientometrics, 2014, 98, 1505-1520.	1.6	20
104	Competing spreading processes on multiplex networks: Awareness and epidemics. Physical Review E, 2014, 90, 012808.	0.8	280
105	Disorder induces explosive synchronization. Physical Review E, 2014, 89, 062811.	0.8	51
106	Spectral properties of the Laplacian of multiplex networks. Physical Review E, 2013, 88, 032807.	0.8	186
107	Abrupt transition in the structural formation of interconnected networks. Nature Physics, 2013, 9, 717-720.	6.5	274
108	Diffusion Dynamics on Multiplex Networks. Physical Review Letters, 2013, 110, 028701.	2.9	738

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109	Degree of intervality of food webs: From body-size data to models. Journal of Theoretical Biology, 2013, 334, 35-44.	0.8	10
110	Mathematical Formulation of Multilayer Networks. Physical Review X, 2013, 3, .	2.8	513
111	Structural Patterns in Complex Systems Using Multidendrograms. Entropy, 2013, 15, 5464-5474.	1.1	6
112	Modeling self-sustained activity cascades in socio-technical networks. Europhysics Letters, 2013, 104, 48004.	0.7	16
113	Dynamical Interplay between Awareness and Epidemic Spreading in Multiplex Networks. Physical Review Letters, 2013, 111, 128701.	2.9	715
114	On the Routability of the Internet. Modeling and Simulation in Science, Engineering and Technology, 2013, , 41-54.	0.4	0
115	Stability and robustness analysis of cooperation cycles driven by destructive agents in finite populations. Physical Review E, 2012, 86, 026105.	0.8	15
116	Stability of Boolean multilevel networks. Physical Review E, 2012, 86, 036115.	0.8	66
117	Explosive First-Order Transition to Synchrony in Networked Chaotic Oscillators. Physical Review Letters, 2012, 108, 168702.	2.9	154
118	TOPOLOGICAL VERSUS DYNAMICAL ROBUSTNESS IN A LEXICAL NETWORK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250157.	0.7	8
119	HIERARCHICAL MULTIREOLUTION METHOD TO OVERCOME THE RESOLUTION LIMIT IN COMPLEX NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250171.	0.7	27
120	UNSUPERVISED CLUSTERING ANALYSIS: A MULTISCALE COMPLEX NETWORKS APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230023.	0.7	6
121	RELIABILITY OF OPTIMAL LINEAR PROJECTION OF GROWING SCALE-FREE NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250159.	0.7	2
122	EMERGING COHESION AND INDIVIDUALIZATION IN COLLECTIVE ACTION: A CO-EVOLUTIVE APPROACH. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 15, 1250067.	0.9	1
123	Evolution of Cooperation in Multiplex Networks. Scientific Reports, 2012, 2, 620.	1.6	355
124	Modeling Epidemic Spreading in Complex Networks: Concurrency and Traffic. Springer Optimization and Its Applications, 2012, , 435-462.	0.6	9
125	Local-Based Semantic Navigation on a Networked Representation of Information. PLoS ONE, 2012, 7, e43694.	1.1	23
126	Modeling international crisis synchronization in the world trade web. Networks and Heterogeneous Media, 2012, 7, 385-397.	0.5	5

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127	An Internet local routing approach based on network structural connectivity. , 2011, , .		1
128	Modeling human mobility responses to the large-scale spreading of infectious diseases. Scientific Reports, 2011, 1, 62.	1.6	269
129	Nonperturbative heterogeneous mean-field approach to epidemic spreading in complex networks. Physical Review E, 2011, 84, 036105.	0.8	81
130	Modeling Abnormal Priming in Alzheimer's Patients with a Free Association Network. PLoS ONE, 2011, 6, e22651.	1.1	32
131	Detecting communities of triangles in complex networks using spectral optimization. Computer Communications, 2011, 34, 629-634.	3.1	31
132	The joker effect: Cooperation driven by destructive agents. Journal of Theoretical Biology, 2011, 279, 113-119.	0.8	44
133	Disentangling categorical relationships through a graph of co-occurrences. Physical Review E, 2011, 84, 046108.	0.8	23
134	Explosive Synchronization Transitions in Scale-Free Networks. Physical Review Letters, 2011, 106, 128701.	2.9	459
135	Structural and functional networks in complex systems with delay. Physical Review E, 2011, 83, 056113.	0.8	18
136	Mesoscopic analysis of networks: Applications to exploratory analysis and data clustering. Chaos, 2011, 21, 016102.	1.0	21
137	Phase clustering in complex networks of delay-coupled oscillators. Chaos, 2011, 21, 025111.	1.0	12
138	Evolution of microscopic and mesoscopic synchronized patterns in complex networks. Chaos, 2011, 21, 016105.	1.0	10
139	Categorizing words through semantic memory navigation. European Physical Journal B, 2010, 74, 265-270.	0.6	30
140	Optimal information transmission in organizations: search and congestion. Review of Economic Design, 2010, 14, 75-93.	0.2	10
141	Improved prognostic classification of breast cancer defined by antagonistic activation patterns of immune response pathway modules. BMC Cancer, 2010, 10, 604.	1.1	144
142	From Modular to Centralized Organization of Synchronization in Functional Areas of the Cat Cerebral Cortex. PLoS ONE, 2010, 5, e12313.	1.1	75
143	Semantic Networks: Structure and Dynamics. Entropy, 2010, 12, 1264-1302.	1.1	159
144	Optimal map of the modular structure of complex networks. New Journal of Physics, 2010, 12, 053009.	1.2	24

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145	Discrete-time Markov chain approach to contact-based disease spreading in complex networks. Europhysics Letters, 2010, 89, 38009.	0.7	403
146	Topological Traps Control Flow on Real Networks: The Case of Coordination Failures. PLoS ONE, 2010, 5, e15210.	1.1	22
147	Analysis of community structure in networks of correlated data. Physical Review E, 2009, 80, 016114.	0.8	198
148	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
149	Propagation of Innovations in Complex Patterns of Interaction. Understanding Complex Systems, 2009, , 269-284.	0.3	2
150	Identificaci3n de comunidades analizando el uso del correo electr3nico. Profesional De La Informacion, 2009, 18, 27-33.	2.7	0
151	Community connectivity and heterogeneity: clues and insights on cooperation on social networks. Journal of Economic Interaction and Coordination, 2008, 3, 183-199.	0.4	12
152	Synchronization in complex networks. Physics Reports, 2008, 469, 93-153.	10.3	2,928
153	Analysis of the structure of complex networks at different resolution levels. New Journal of Physics, 2008, 10, 053039.	1.2	400
154	Motif-based communities in complex networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224001.	0.7	80
155	Publisher's Note: Impact of community structure on information transfer [Phys. Rev. E77, 036103 (2008)]. Physical Review E, 2008, 77, .	0.8	1
156	Impact of community structure on information transfer. Physical Review E, 2008, 77, 036103.	0.8	48
157	Mesoscopic Structure Conditions the Emergence of Cooperation on Social Networks. PLoS ONE, 2008, 3, e1892.	1.1	102
158	Phase Patterns of Coupled Oscillators with Application to Wireless Communication. Lecture Notes in Computer Science, 2008, , 184-191.	1.0	11
159	A Complex Network Approach to the Determination of Functional Groups in the Neural System of C.ÂElegans. Lecture Notes in Computer Science, 2008, , 9-18.	1.0	18
160	Amplified Signal Response in Scale-Free Networks by Collaborative Signaling. Physical Review Letters, 2007, 99, 128701.	2.9	67
161	Synchronizability determined by coupling strengths and topology on complex networks. Physical Review E, 2007, 75, 066106.	0.8	86
162	Size reduction of complex networks preserving modularity. New Journal of Physics, 2007, 9, 176-176.	1.2	255

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163	Effect of random failures on traffic in complex networks. , 2007, , .		6
164	Paths to Synchronization on Complex Networks. Physical Review Letters, 2007, 98, 034101.	2.9	312
165	Synchronization and modularity in complex networks. European Physical Journal: Special Topics, 2007, 143, 19-25.	1.2	54
166	A model to study the scaling of traffic fluctuations on complex networks. European Physical Journal: Special Topics, 2007, 143, 253-255.	1.2	5
167	Analysis of large social datasets by community detection. European Physical Journal: Special Topics, 2007, 143, 257-259.	1.2	24
168	The effect of size heterogeneity on community identification in complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P11010-P11010.	0.9	178
169	Synchronization Reveals Topological Scales in Complex Networks. Physical Review Letters, 2006, 96, 114102.	2.9	692
170	The real communication network behind the formal chart: Community structure in organizations. Journal of Economic Behavior and Organization, 2006, 61, 653-667.	1.0	43
171	Synchronization processes in complex networks. Physica D: Nonlinear Phenomena, 2006, 224, 27-34.	1.3	132
172	Scaling of Fluctuations in Traffic on Complex Networks. Physical Review Letters, 2006, 96, 218702.	2.9	89
173	On the existence and scaling of structure functions in turbulence according to the data. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4352-4355.	3.3	14
174	Universal scaling in food-web structure?. Nature, 2005, 435, E3-E4.	13.7	22
175	Community detection in complex networks using extremal optimization. Physical Review E, 2005, 72, 027104.	0.8	1,233
176	Comparing community structure identification. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P09008-P09008.	0.9	1,889
177	Community analysis in social networks. European Physical Journal B, 2004, 38, 373-380.	0.6	167
178	Estimation of infinite dilution activity coefficients of organic compounds in water with neural classifiers. AIChE Journal, 2004, 50, 1315-1343.	1.8	26
179	Models of social networks based on social distance attachment. Physical Review E, 2004, 70, 056122.	0.8	549
180	Local Search with Congestion in Complex Communication Networks. Lecture Notes in Computer Science, 2004, , 1078-1085.	1.0	7

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181	A Fuzzy ARTMAP-Based Quantitative Structure-Property Relationship (QSPR) for the Henry's Law Constant of Organic Compounds.. ChemInform, 2003, 34, no.	0.1	0
182	A Fuzzy ARTMAP-Based Quantitative Structure-Property Relationship (QSPR) for the Henry's Law Constant of Organic Compounds. Journal of Chemical Information and Computer Sciences, 2003, 43, 85-112.	2.8	53
183	Self-similar community structure in a network of human interactions. Physical Review E, 2003, 68, 065103.	0.8	1,092
184	Search and Congestion in Complex Networks. Lecture Notes in Physics, 2003, , 175-194.	0.3	18
185	Optimal Information Transmission in Organizations: Search and Congestion. SSRN Electronic Journal, 2003, , .	0.4	4
186	A Modified Dual-Priority Scheduling Algorithm for Hard Real-Time Systems to Improve Energy Savings. , 2003, , 17-36.		1
187	Optimal Network Topologies for Local Search with Congestion. Physical Review Letters, 2002, 89, 248701.	2.9	501
188	Modeling diffusion of innovations in a social network. Physical Review E, 2002, 66, 026121.	0.8	66
189	Dynamical properties of model communication networks. Physical Review E, 2002, 66, 026704.	0.8	172
190	A Fuzzy ARTMAP Based Quantitative Structure-Property Relationship (QSPR) for Predicting Aqueous Solubility of Organic Compounds J. Chem. Inf. Comput. Sci. 41, 1177-1207 (2001). Journal of Chemical Information and Computer Sciences, 2002, 42, 768-768.	2.8	1
191	An Integrated SOM-Fuzzy ARTMAP Neural System for the Evaluation of Toxicity. Journal of Chemical Information and Computer Sciences, 2002, 42, 343-359.	2.8	36
192	Fuzzy ARTMAP and Back-Propagation Neural Networks Based Quantitative Structure-Property Relationships (QSPRs) for Octanol-Water Partition Coefficient of Organic Compounds. Journal of Chemical Information and Computer Sciences, 2002, 42, 162-183.	2.8	41
193	Self-organized criticality in evolutionary systems with local interaction. Journal of Economic Dynamics and Control, 2002, 26, 2115-2142.	0.9	33
194	Neural virtual sensor for the inferential prediction of product quality from process variables. Computers and Chemical Engineering, 2002, 26, 1735-1754.	2.0	84
195	A Fuzzy ARTMAP-Based Quantitative Structure-Property Relationship (QSPR) for Predicting Physical Properties of Organic Compounds. Industrial & Engineering Chemistry Research, 2001, 40, 2757-2766.	1.8	39
196	A Fuzzy ARTMAP Based on Quantitative Structure-Property Relationships (QSPRs) for Predicting Aqueous Solubility of Organic Compounds. Journal of Chemical Information and Computer Sciences, 2001, 41, 1177-1207.	2.8	66
197	Communication and optimal hierarchical networks. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 247-252.	1.2	36
198	NEW RESULTS IN A SELF-ORGANIZED MODEL OF TECHNOLOGICAL EVOLUTION. International Journal of Modeling, Simulation, and Scientific Computing, 2001, 04, 89-100.	0.9	2

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199	Communication in Networks with Hierarchical Branching. Physical Review Letters, 2001, 86, 3196-3199.	2.9	390
200	Prediction of boiling points of organic compounds from molecular descriptors by using backpropagation neural network. Mathematical and Computational Chemistry, 2001, , 1-10.	0.3	2
201	The simulation and interpretation of free turbulence with a cognitive neural system. Physics of Fluids, 2000, 12, 1826-1835.	1.6	43
202	Self-organized evolution in a socioeconomic environment. Physical Review E, 2000, 61, 3466-3469.	0.8	35
203	Neural Network Based Quantitative Structural Property Relations (QSPRs) for Predicting Boiling Points of Aliphatic Hydrocarbons. Journal of Chemical Information and Computer Sciences, 2000, 40, 859-879.	2.8	47
204	SYNCHRONIZATION IN A RING OF PULSATING OSCILLATORS WITH BIDIRECTIONAL COUPLINGS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2203-2207.	0.7	2
205	Mechanisms of synchronization and pattern formation in a lattice of pulse-coupled oscillators. Physical Review E, 1998, 57, 3820-3828.	0.8	18
206	Extraction of structures from turbulent signals. Advanced Engineering Informatics, 1997, 11, 413-419.	0.5	11
207	Stability of spatio-temporal structures in a lattice model of pulse-coupled oscillators. Physica D: Nonlinear Phenomena, 1997, 103, 419-429.	1.3	7
208	ON SELF-ORGANIZED CRITICALITY AND SYNCHRONIZATION IN LATTICE MODELS OF COUPLED DYNAMICAL SYSTEMS. International Journal of Modern Physics B, 1996, 10, 1111-1151.	1.0	52
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