

# Alessandro Vespignani

## 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.

274  
papers

43,088  
citations

95  
h-index

206  
g-index

302  
ext. papers

51,234  
ext. citations

9.1  
avg, IF

7.93  
L-index

#	Paper	IF	Citations
274	Model-based evaluation of alternative reactive class closure strategies against COVID-19.. <i>Nature Communications</i> , <b>2022</b> , 13, 322	17.4	3
273	Cost-effective proactive testing strategies during COVID-19 mass vaccination: A modelling study.. <i>The Lancet Regional Health Americas</i> , <b>2022</b> , 8, 100182		1
272	Impact of SARS-CoV-2 vaccination of children ages 5-11 years on COVID-19 disease burden and resilience to new variants in the United States, November 2021-March 2022: a multi-model study. <b>2022</b> ,		1
271	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2113561119	11.5	13
270	Anatomy of the first six months of COVID-19 vaccination campaign in Italy. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1010146	5	0
269	Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave. <i>Nature</i> , <b>2021</b> , 600, 127-132	50.4	5
268	The effect of eviction moratoria on the transmission of SARS-CoV-2 <b>2021</b> ,		8
267	Infectivity, susceptibility, and risk factors associated with SARS-CoV-2 transmission under intensive contact tracing in Hunan, China. <i>Nature Communications</i> , <b>2021</b> , 12, 1533	17.4	53
266	Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave in Europe and the United States <b>2021</b> ,		1
265	An early warning approach to monitor COVID-19 activity with multiple digital traces in near real time. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	44
264	Comparative cost-effectiveness of SARS-CoV-2 testing strategies in the USA: a modelling study. <i>Lancet Public Health</i> , <b>2021</b> , 6, e184-e191	22.4	35
263	The effect of eviction moratoria on the transmission of SARS-CoV-2. <i>Nature Communications</i> , <b>2021</b> , 12, 2274	17.4	19
262	Estimating the effect of social inequalities on the mitigation of COVID-19 across communities in Santiago de Chile. <i>Nature Communications</i> , <b>2021</b> , 12, 2429	17.4	31
261	Modeling of Future COVID-19 Cases, Hospitalizations, and Deaths, by Vaccination Rates and Nonpharmaceutical Intervention Scenarios - United States, April-September 2021. <i>Morbidity and Mortality Weekly Report</i> , <b>2021</b> , 70, 719-724	31.7	50
260	The impact of relaxing interventions on human contact patterns and SARS-CoV-2 transmission in China. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	20
259	Using heterogeneous data to identify signatures of dengue outbreaks at fine spatio-temporal scales across Brazil. <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009392	4.8	1
258	Association between COVID-19 outcomes and mask mandates, adherence, and attitudes. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252315	3.7	14

257	Integrating explanation and prediction in computational social science. <i>Nature</i> , <b>2021</b> , 595, 181-188	50.4	29
256	Estimating the cumulative incidence of COVID-19 in the United States using influenza surveillance, virologic testing, and mortality data: Four complementary approaches. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008994	5	7
255	Spatiotemporal invasion dynamics of SARS-CoV-2 lineage B.1.1.7 emergence. <i>Science</i> , <b>2021</b> , 373, 889-895	33.3	41
254	Transmission heterogeneities, kinetics, and controllability of SARS-CoV-2. <i>Science</i> , <b>2021</b> , 371,	33.3	173
253	Inferring high-resolution human mixing patterns for disease modeling. <i>Nature Communications</i> , <b>2021</b> , 12, 323	17.4	69
252	Give more data, awareness and control to individual citizens, and they will help COVID-19 containment. <i>Ethics and Information Technology</i> , <b>2021</b> , 1-6	3.7	14
251	Predicting seasonal influenza using supermarket retail records. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009087	5	1
250	Using simulated infectious disease outbreaks to inform site selection and sample size for individually randomized vaccine trials during an ongoing epidemic. <i>Clinical Trials</i> , <b>2021</b> , 18, 630-638	2.2	1
249	Projected resurgence of COVID-19 in the United States in July-December 2021 resulting from the increased transmissibility of the Delta variant and faltering vaccination <b>2021</b> ,		3
248	Survey data and human computation for improved flu tracking. <i>Nature Communications</i> , <b>2021</b> , 12, 194	17.4	4
247	Modelling COVID-19. <i>Nature Reviews Physics</i> , <b>2020</b> , 1-3	23.6	91
246	Detecting critical slowing down in high-dimensional epidemiological systems. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007679	5	19
245	The effect of travel restrictions on the spread of the 2019 novel coronavirus (COVID-19) outbreak. <i>Science</i> , <b>2020</b> , 368, 395-400	33.3	1798
244	The effect of human mobility and control measures on the COVID-19 epidemic in China. <i>Science</i> , <b>2020</b> , 368, 493-497	33.3	1373
243	Phase transitions in information spreading on structured populations. <i>Nature Physics</i> , <b>2020</b> , 16, 590-596	16.2	16
242	Changes in contact patterns shape the dynamics of the COVID-19 outbreak in China. <i>Science</i> , <b>2020</b> , 368, 1481-1486	33.3	610
241	Evolving epidemiology and transmission dynamics of coronavirus disease 2019 outside Hubei province, China: a descriptive and modelling study. <i>Lancet Infectious Diseases</i> , <b>2020</b> , 20, 793-802	25.5	394
240	The COVID-19 outbreak in Sichuan, China: Epidemiology and impact of interventions. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008467	5	11

239	Real-Time Forecasting of the COVID-19 Outbreak in Chinese Provinces: Machine Learning Approach Using Novel Digital Data and Estimates From Mechanistic Models. <i>Journal of Medical Internet Research</i> , <b>2020</b> , 22, e20285	7.6	17
238	Early Insights from Statistical and Mathematical Modeling of Key Epidemiologic Parameters of COVID-19. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, e1-e14	10.2	29
237	The effect of travel restrictions on the spread of the 2019 novel coronavirus (2019-nCoV) outbreak <b>2020</b> ,		87
236	Evolving epidemiology of novel coronavirus diseases 2019 and possible interruption of local transmission outside Hubei Province in China: a descriptive and modeling study <b>2020</b> ,		24
235	The effect of human mobility and control measures on the COVID-19 epidemic in China <b>2020</b> ,		26
234	Age profile of susceptibility, mixing, and social distancing shape the dynamics of the novel coronavirus disease 2019 outbreak in China <b>2020</b> ,		29
233	Estimating the Cumulative Incidence of COVID-19 in the United States Using Four Complementary Approaches <b>2020</b> ,		26
232	Modeling the impact of social distancing, testing, contact tracing and household quarantine on second-wave scenarios of the COVID-19 epidemic <b>2020</b> ,		63
231	Estimating the establishment of local transmission and the cryptic phase of the COVID-19 pandemic in the USA <b>2020</b> ,		7
230	Infectivity, susceptibility, and risk factors associated with SARS-CoV-2 transmission under intensive contact tracing in Hunan, China <b>2020</b> ,		23
229	The impact of relaxing interventions on human contact patterns and SARS-CoV-2 transmission in China <b>2020</b> ,		6
228	Transmission heterogeneities, kinetics, and controllability of SARS-CoV-2 <b>2020</b> ,		11
227	COVID-19 reopening strategies at the county level in the face of uncertainty: Multiple Models for Outbreak Decision Support <b>2020</b> ,		16
226	Ensemble forecast modeling for the design of COVID-19 vaccine efficacy trials. <i>Vaccine</i> , <b>2020</b> , 38, 7213-7216		17
225	Modelling the impact of testing, contact tracing and household quarantine on second waves of COVID-19. <i>Nature Human Behaviour</i> , <b>2020</b> , 4, 964-971	12.8	333
224	Assessing the spread of COVID-19 in Brazil: Mobility, morbidity and social vulnerability. <i>PLoS ONE</i> , <b>2020</b> , 15, e0238214	3.7	28
223	Computational social science: Obstacles and opportunities. <i>Science</i> , <b>2020</b> , 369, 1060-1062	33.3	81
222	Collaborative efforts to forecast seasonal influenza in the United States, 2015-2016. <i>Scientific Reports</i> , <b>2019</b> , 9, 683	4.9	51

221	The future of influenza forecasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2802-2804	11.5	30
220	Mapping the physics research space: a machine learning approach. <i>EPJ Data Science</i> , <b>2019</b> , 8,	3.4	11
219	Differences in Regional Patterns of Influenza Activity Across Surveillance Systems in the United States: Comparative Evaluation. <i>JMIR Public Health and Surveillance</i> , <b>2019</b> , 5, e13403	11.4	3
218	Charting the Next Pandemic <b>2019</b> ,		12
217	Science of science. <i>Science</i> , <b>2018</b> , 359,	33.3	373
216	Resilience management during large-scale epidemic outbreaks. <i>Scientific Reports</i> , <b>2018</b> , 8, 1859	4.9	46
215	The RAPIDD ebola forecasting challenge: Synthesis and lessons learnt. <i>Epidemics</i> , <b>2018</b> , 22, 13-21	5.1	106
214	Results from the second year of a collaborative effort to forecast influenza seasons in the United States. <i>Epidemics</i> , <b>2018</b> , 24, 26-33	5.1	63
213	The RAPIDD Ebola forecasting challenge: Model description and synthetic data generation. <i>Epidemics</i> , <b>2018</b> , 22, 3-12	5.1	12
212	Quantifying the risk of local Zika virus transmission in the contiguous US during the 2015-2016 ZIKV epidemic. <i>BMC Medicine</i> , <b>2018</b> , 16, 195	11.4	7
211	Link transmission centrality in large-scale social networks. <i>EPJ Data Science</i> , <b>2018</b> , 7,	3.4	4
210	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> , <b>2018</b> , 115, 12680-12685	11.5	124
209	Spread of Zika virus in the Americas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4334-E4343	11.5	194
208	Forecasting Seasonal Influenza Fusing Digital Indicators and a Mechanistic Disease Model <b>2017</b> ,		33
207	Simulations for designing and interpreting intervention trials in infectious diseases. <i>BMC Medicine</i> , <b>2017</b> , 15, 223	11.4	41
206	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. <i>JMIR Public Health and Surveillance</i> , <b>2017</b> , 3, e83	11.4	29
205	The dynamics of information-driven coordination phenomena: A transfer entropy analysis. <i>Science Advances</i> , <b>2016</b> , 2, e1501158	14.3	54
204	Big Data for Infectious Disease Surveillance and Modeling. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 214, S375-S379		138

203	Asymptotic theory of time-varying social networks with heterogeneous activity and tie allocation. <i>Scientific Reports</i> , <b>2016</b> , 6, 35724	4.9	25
202	Spatiotemporal dynamics of the Ebola epidemic in Guinea and implications for vaccination and disease elimination: a computational modeling analysis. <i>BMC Medicine</i> , <b>2016</b> , 14, 130	11.4	22
201	Detecting global bridges in networks. <i>Journal of Complex Networks</i> , <b>2016</b> , 4, 319-329	1.7	24
200	The Biosurveillance Analytics Resource Directory (BARD): Facilitating the Use of Epidemiological Models for Infectious Disease Surveillance. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146600	3.7	6
199	Real-Time Assessment of the International Spreading Risk Associated with the 2014 West African Ebola Outbreak <b>2016</b> , 39-56		2
198	Results from the centers for disease control and prevention's predict the 2013-2014 Influenza Season Challenge. <i>BMC Infectious Diseases</i> , <b>2016</b> , 16, 357	4	109
197	Containing Ebola at the Source with Ring Vaccination. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0005093	4.8	42
196	Characterising two-pathogen competition in spatially structured environments. <i>Scientific Reports</i> , <b>2015</b> , 5, 7895	4.9	20
195	Reply to Biersteker: When methods matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1815	11.5	
194	Epidemic processes in complex networks. <i>Reviews of Modern Physics</i> , <b>2015</b> , 87, 925-979	40.5	1761
193	A multi-source dataset of urban life in the city of Milan and the Province of Trentino. <i>Scientific Data</i> , <b>2015</b> , 2, 150055	8.2	97
192	Enhancing disease surveillance with novel data streams: challenges and opportunities. <i>EPJ Data Science</i> , <b>2015</b> , 4,	3.4	96
191	Online social networks and offline protest. <i>EPJ Data Science</i> , <b>2015</b> , 4,	3.4	71
190	Spatiotemporal spread of the 2014 outbreak of Ebola virus disease in Liberia and the effectiveness of non-pharmaceutical interventions: a computational modelling analysis. <i>Lancet Infectious Diseases</i> , <b>2015</b> , 15, 204-11	25.5	180
189	Social Data Mining and Seasonal Influenza Forecasts: The FluOutlook Platform. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 237-240	0.9	16
188	Time varying networks and the weakness of strong ties. <i>Scientific Reports</i> , <b>2014</b> , 4, 4001	4.9	143
187	Controlling contagion processes in activity driven networks. <i>Physical Review Letters</i> , <b>2014</b> , 112, 118702	7.4	122
186	Big data. The parable of Google Flu: traps in big data analysis. <i>Science</i> , <b>2014</b> , 343, 1203-5	33.3	1434

185	Web-based participatory surveillance of infectious diseases: the Influenzanet participatory surveillance experience. <i>Clinical Microbiology and Infection</i> , <b>2014</b> , 20, 17-21	9.5	104
184	Ebola: mobility data. <i>Science</i> , <b>2014</b> , 346, 433	33.3	31
183	Twitter: big data opportunities--response. <i>Science</i> , <b>2014</b> , 345, 148-9	33.3	16
182	Google Flu Trends Still Appears Sick: An Evaluation of the 2013-2014 Flu Season. <i>SSRN Electronic Journal</i> , <b>2014</b> ,	1	22
181	The infection tree of global epidemics. <i>Network Science</i> , <b>2014</b> , 2, 132-137	2.9	15
180	Links that speak: the global language network and its association with global fame. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E5616-22	11.5	72
179	Damage detection via shortest-path network sampling. <i>Physical Review E</i> , <b>2014</b> , 89, 052816	2.4	5
178	Opinion: Mathematical models: a key tool for outbreak response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 18095-6	11.5	56
177	The representativeness of a European multi-center network for influenza-like-illness participatory surveillance. <i>BMC Public Health</i> , <b>2014</b> , 14, 984	4.1	31
176	Assessing the international spreading risk associated with the 2014 west african ebola outbreak. <i>PLOS Currents</i> , <b>2014</b> , 6,		208
175	Association between recruitment methods and attrition in Internet-based studies. <i>PLoS ONE</i> , <b>2014</b> , 9, e114925	3.7	22
174	Determinants of follow-up participation in the Internet-based European influenza surveillance platform Influenzanet. <i>Journal of Medical Internet Research</i> , <b>2014</b> , 16, e78	7.6	25
173	Containing the accidental laboratory escape of potential pandemic influenza viruses. <i>BMC Medicine</i> , <b>2013</b> , 11, 252	11.4	25
172	Human mobility and the worldwide impact of intentional localized highly pathogenic virus release. <i>Scientific Reports</i> , <b>2013</b> , 3, 810	4.9	14
171	Social Networks, Contagion Processes and the Spreading of Infectious Diseases <b>2013</b> , 515-527		1
170	Host mobility drives pathogen competition in spatially structured populations. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003169	5	34
169	Characterizing scientific production and consumption in physics. <i>Scientific Reports</i> , <b>2013</b> , 3, 1640	4.9	29
168	The Twitter of Babel: mapping world languages through microblogging platforms. <i>PLoS ONE</i> , <b>2013</b> , 8, e61981	3.7	148

167	Modeling Contact and Mobility Based Social Response to the Spreading of Infectious Diseases <b>2013</b> , 103-123		
166	Invasion threshold in structured populations with recurrent mobility patterns. <i>Journal of Theoretical Biology</i> , <b>2012</b> , 293, 87-100	2.3	50
165	Random walks and search in time-varying networks. <i>Physical Review Letters</i> , <b>2012</b> , 109, 238701	7.4	133
164	Citation Networks. <i>Understanding Complex Systems</i> , <b>2012</b> , 233-257	0.4	31
163	Modelling dynamical processes in complex socio-technical systems. <i>Nature Physics</i> , <b>2012</b> , 8, 32-39	16.2	429
162	Beating the news using social media: the case study of American Idol. <i>EPJ Data Science</i> , <b>2012</b> , 1,	3.4	41
161	Real-time numerical forecast of global epidemic spreading: case study of 2009 A/H1N1pdm. <i>BMC Medicine</i> , <b>2012</b> , 10, 165	11.4	178
160	Complex dynamic networks: Tools and methods. <i>Computer Networks</i> , <b>2012</b> , 56, 967-969	5.4	8
159	Inferring the structure of social contacts from demographic data in the analysis of infectious diseases spread. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002673	5	121
158	Digital epidemiology. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002616	5	334
157	Phase transitions in contagion processes mediated by recurrent mobility patterns. <i>Nature Physics</i> , <b>2011</b> , 7, 581-586	16.2	147
156	Human mobility networks, travel restrictions, and the global spread of 2009 H1N1 pandemic. <i>PLoS ONE</i> , <b>2011</b> , 6, e16591	3.7	313
155	Modeling users' activity on twitter networks: validation of Dunbar's number. <i>PLoS ONE</i> , <b>2011</b> , 6, e22656	3.7	324
154	The GLEaMviz computational tool, a publicly available software to explore realistic epidemic spreading scenarios at the global scale. <i>BMC Infectious Diseases</i> , <b>2011</b> , 11, 37	4	131
153	Modeling human mobility responses to the large-scale spreading of infectious diseases. <i>Scientific Reports</i> , <b>2011</b> , 1, 62	4.9	233
152	Properties and Evolution of Internet Traffic Networks from Anonymized Flow Data. <i>ACM Transactions on Internet Technology</i> , <b>2011</b> , 10, 1-23	3.8	6
151	Assessing the ecotoxicologic hazards of a pandemic influenza medical response. <i>Environmental Health Perspectives</i> , <b>2011</b> , 119, 1084-90	8.4	27
150	Towards a characterization of behavior-disease models. <i>PLoS ONE</i> , <b>2011</b> , 6, e23084	3.7	149



149	Characterizing and modeling the dynamics of online popularity. <i>Physical Review Letters</i> , <b>2010</b> , 105, 15870-14	160
148	Traffic in Social Media II: Modeling Bursty Popularity <b>2010</b> ,	15
147	The flu fighters. <i>Physics World</i> , <b>2010</b> , 23, 26-30	0.5 7
146	Modeling the spatial spread of infectious diseases: the GLoBal Epidemic and Mobility computational model. <i>Journal of Computational Science</i> , <b>2010</b> , 1, 132-145	3.4 275
145	Comparing large-scale computational approaches to epidemic modeling: agent-based versus structured metapopulation models. <i>BMC Infectious Diseases</i> , <b>2010</b> , 10, 190	4 163
144	Dynamics of person-to-person interactions from distributed RFID sensor networks. <i>PLoS ONE</i> , <b>2010</b> , 5, e11596	3.7 473
143	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. <i>Emerging Health Threats Journal</i> , <b>2009</b> , 2, 7093	9
142	Diffusion of scientific credits and the ranking of scientists. <i>Physical Review E</i> , <b>2009</b> , 80, 056103	2.4 209
141	WiFi networks and malware epidemiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1318-23	11.5 63
140	Extracting the multiscale backbone of complex weighted networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 6483-8	11.5 416
139	Reply to Slater: Extracting the backbone of multiscale networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, E67-E67	11.5 2
138	Seasonal transmission potential and activity peaks of the new influenza A(H1N1): a Monte Carlo likelihood analysis based on human mobility. <i>BMC Medicine</i> , <b>2009</b> , 7, 45	11.4 248
137	Predicting the behavior of techno-social systems. <i>Science</i> , <b>2009</b> , 325, 425-8	33.3 335
136	Multiscale mobility networks and the spatial spreading of infectious diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21484-9	11.5 821
135	Economic networks: the new challenges. <i>Science</i> , <b>2009</b> , 325, 422-5	33.3 537
134	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. <i>Emerging Health Threats Journal</i> , <b>2009</b> , 2, e11	12
133	Estimate of Novel Influenza A/H1N1 cases in Mexico at the early stage of the pandemic with a spatially structured epidemic model. <i>PLOS Currents</i> , <b>2009</b> , 1, RRN1129	14
132	Modeling the critical care demand and antibiotics resources needed during the Fall 2009 wave of influenza A(H1N1) pandemic. <i>PLOS Currents</i> , <b>2009</b> , 1, RRN1133	16

131	EPIDEMIC PREDICTIONS AND PREDICTABILITY IN COMPLEX ENVIRONMENTS. <i>Biophysical Reviews and Letters</i> , <b>2008</b> , 03, 217-226	1.2	3
130	Structural analysis of behavioral networks from the Internet. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2008</b> , 41, 224022	2	14
129	Ranking web sites with real user traffic <b>2008</b> ,		40
128	Comment on "self-organized criticality and absorbing states: lessons from the Ising model". <i>Physical Review E</i> , <b>2008</b> , 77, 048101; discussion 048102	2.4	9
127	Epidemic modeling in metapopulation systems with heterogeneous coupling pattern: theory and simulations. <i>Journal of Theoretical Biology</i> , <b>2008</b> , 251, 450-67	2.3	304
126	Reaction-diffusion processes and epidemic metapopulation models in complex networks. <i>European Physical Journal B</i> , <b>2008</b> , 64, 349-353	1.2	11
125	K-core decomposition of Internet graphs: hierarchies, self-similarity and measurement biases. <i>Networks and Heterogeneous Media</i> , <b>2008</b> , 3, 371-393	1.6	122
124	Dynamical Processes on Complex Networks <b>2008</b> ,		1362
123	Network science. <i>Annual Review of Information Science &amp; Technology</i> , <b>2007</b> , 41, 537-607		173
122	Reaction-diffusion processes and metapopulation models in heterogeneous networks. <i>Nature Physics</i> , <b>2007</b> , 3, 276-282	16.2	500
121	Predictability and epidemic pathways in global outbreaks of infectious diseases: the SARS case study. <i>BMC Medicine</i> , <b>2007</b> , 5, 34	11.4	124
120	Patterns of dominant flows in the world trade web. <i>Journal of Economic Interaction and Coordination</i> , <b>2007</b> , 2, 111-124	1.1	126
119	EPIDEMIC PREDICTABILITY IN META-POPULATION MODELS WITH HETEROGENEOUS COUPLINGS: THE IMPACT OF DISEASE PARAMETER VALUES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2007</b> , 17, 2491-2500	2	7
118	The workshop on internet topology (wit) report. <i>Computer Communication Review</i> , <b>2007</b> , 37, 69-73	1.4	33
117	Modeling the worldwide spread of pandemic influenza: baseline case and containment interventions. <i>PLoS Medicine</i> , <b>2007</b> , 4, e13	11.6	458
116	Decoding the structure of the WWW. <i>ACM Transactions on the Web</i> , <b>2007</b> , 1, 10	3.2	36
115	THE ROLE OF GEOGRAPHY AND TRAFFIC IN THE STRUCTURE OF COMPLEX NETWORKS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , <b>2007</b> , 10, 5-28	0.8	8
114	The Structure of Interurban Traffic: A Weighted Network Analysis. <i>Environment and Planning B: Planning and Design</i> , <b>2007</b> , 34, 905-924		155

113	Epidemic modeling in complex realities. <i>Comptes Rendus - Biologies</i> , <b>2007</b> , 330, 364-74	1.4	42
112	Invasion threshold in heterogeneous metapopulation networks. <i>Physical Review Letters</i> , <b>2007</b> , 99, 148701-4	1.4	209
111	The modeling of global epidemics: stochastic dynamics and predictability. <i>Bulletin of Mathematical Biology</i> , <b>2006</b> , 68, 1893-921	2.1	89
110	Vulnerability of weighted networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2006</b> , 2006, P04006-P04006	1.9	69
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