Marco Ajelli

List of Publications by Year
in descending order

96 papers	11,132 citations	66343 42 h-index	39675 94 g-index
137 all docs	137 docs citations	137 times ranked	14299 citing authors

#	Article	IF	Citations
1	Risk of Symptomatic Infection During a Second Coronavirus Disease 2019 Wave in Severe Acute Respiratory Syndrome Coronavirus 2â€“Seropositive Individuals. Clinical Infectious Diseases, 2022, 74, 893-896.	5.8	5
2	Pressure on the Health-Care System and Intensive Care Utilization During the COVID-19 Outbreak in the Lombardy Region of Italy: A Retrospective Observational Study in 43,538 Hospitalized Patients. American Journal of Epidemiology, 2022, 191, 137-146.	3.4	34
3	Characterizing the transmission patterns of seasonal influenza in Italy: lessons from the last decade. BMC Public Health, 2022, 22, 19.	2.9	11
4	Model-based evaluation of alternative reactive class closure strategies against COVID-19. Nature Communications, 2022, 13, 322.	12.8	17
5	Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China. BMC Medicine, 2022, 20, 37.	5.5	10
6	Co-circulation of SARS-CoV-2 Alpha and Gamma variants in Italy, February and March 2021. Eurosurveillance, 2022, 27, .	7.0	20
7	The New Quadrivalent Adjuvanted Influenza Vaccine for the Italian Elderly: A Health Technology Assessment. International Journal of Environmental Research and Public Health, 2022, 19, 4166.	2.6	11
8	Assessing the transition of COVID-19 burden towards the young population while vaccines are rolled out in China*. Emerging Microbes and Infections, 2022, 11, 1205-1214.	6.5	5
9	Modeling transmission of SARS-CoV-2 Omicron in China. Nature Medicine, 2022, 28, 1468-1475.	30.7	177
10	Quantifying human mixing patterns in Chinese provinces outside Hubei after the 2020 lockdown was lifted. BMC Infectious Diseases, 2022, 22, .	2.9	2
11	Anatomy of the first six months of COVID-19 vaccination campaign in Italy. PLoS Computational Biology, 2022, 18, e1010146.	3.2	5
12	Investigating the relationship between interventions, contact patterns, and SARS-CoV-2Âtransmissibility. Epidemics, 2022, 40, 100601.	3.0	7
13	Quantifying the importance and location of SARS-CoV-2 transmission events in large metropolitan areas. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	35
14	Intrinsic generation time of the SARS-CoV-2 Omicron variant: An observational study of household transmission. Lancet Regional Health - Europe, The, 2022, 19, 100446.	5.6	34
15	Case Fatality Risk of the First Pandemic Wave of Coronavirus Disease 2019 (COVID-19) in China. Clinical Infectious Diseases, 2021, 73, e79-e85.	5.8	50
16	Transmission heterogeneities, kinetics, and controllability of SARS-CoV-2. Science, 2021, 371, .	12.6	341
17	Healthâ€seeking behaviors of patients with acute respiratory infections during the outbreak of novel coronavirus disease 2019 in Wuhan, China. Influenza and Other Respiratory Viruses, 2021, 15, 188-194.	3.4	14
18	Impact of a Nationwide Lockdown on SARS-CoV-2 Transmissibility, Italy. Emerging Infectious Diseases, 2021, 27, 267-270.	4.3	64

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19	Inferring high-resolution human mixing patterns for disease modeling. Nature Communications, 2021, 12, 323.	12.8	161
20	Who should be prioritized for COVID-19 vaccination in China? A descriptive study. BMC Medicine, 2021, 19, 45.	5.5	56
21	Infectivity, susceptibility, and risk factors associated with SARS-CoV-2 transmission under intensive contact tracing in Hunan, China. Nature Communications, 2021, 12, 1533.	12.8	117
22	Association of Age With Likelihood of Developing Symptoms and Critical Disease Among Close Contacts Exposed to Patients With Confirmed SARS-CoV-2 Infection in Italy. JAMA Network Open, 2021, 4, e211085.	5.9	127
23	Modeling the interplay between demography, social contact patterns, and SARS-CoV-2 transmission in the South West Shewa Zone of Oromia Region, Ethiopia. BMC Medicine, 2021, 19, 89.	5.5	13
24	The impact of relaxing interventions on human contact patterns and SARS-CoV-2 transmission in China. Science Advances, 2021, 7, .	10.3	53
25	Serological evidence of human infection with SARS-CoV-2: a systematic review and meta-analysis. The Lancet Global Health, 2021, 9, e598-e609.	6.3	193
26	Despite vaccination, China needs non-pharmaceutical interventions to prevent widespread outbreaks of COVID-19 in 2021. Nature Human Behaviour, 2021, 5, 1009-1020.	12.0	81
27	Revisiting the guidelines for ending isolation for COVID-19 patients. ELife, 2021, 10, .	6.0	17
28	Impact of tiered restrictions on human activities and the epidemiology of the second wave of COVID-19 in Italy. Nature Communications, 2021, 12, 4570.	12.8	45
29	Seroprevalence of and Risk Factors Associated With SARS-CoV-2 Infection in Health Care Workers During the Early COVID-19 Pandemic in Italy. JAMA Network Open, 2021, 4, e2115699.	5.9	48
30	Time-varying optimization of COVID-19 vaccine prioritization in the context of limited vaccination capacity. Nature Communications, 2021, 12, 4673.	12.8	56
31	Retrospective analysis of the Italian exit strategy from COVID-19 lockdown. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	72
32	Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave. Nature, 2021, 600, 127-132.	27.8	61
33	Social contact patterns and implications for infectious disease transmission â€“ a systematic review and meta-analysis of contact surveys. ELife, 2021, 10, .	6.0	36
34	The early phase of the COVID-19 epidemic in Lombardy, Italy. Epidemics, 2021, 37, 100528.	3.0	158
35	A quantitative assessment of epidemiological parameters required to investigate COVID-19 burden. Epidemics, 2021, 37, 100530.	3.0	8
36	The effect of COVID-19 vaccination in Italy and perspectives for living with the virus. Nature Communications, 2021, 12, 7272.	12.8	40

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37	Modelling the impact of testing, contact tracing and household quarantine on second waves of COVID-19. Nature Human Behaviour, 2020, 4, 964-971.	12.0	605
38	Disease burden and clinical severity of the first pandemic wave of COVID-19 in Wuhan, China. Nature Communications, 2020, 11, 5411.	12.8	84
39	Global, regional, and national estimates of target population sizes for covid-19 vaccination: descriptive study. BMJ, The, 2020, 371, m4704.	6.0	140
40	Detecting critical slowing down in high-dimensional epidemiological systems. PLoS Computational Biology, 2020, 16, e1007679.	3.2	34
41	The effect of travel restrictions on the spread of the 2019 novel coronavirus (COVID-19) outbreak. Science, 2020, 368, 395-400.	12.6	2,784
42	Changes in contact patterns shape the dynamics of the COVID-19 outbreak in China. Science, 2020, 368, 1481-1486.	12.6	942
43	Evolving epidemiology and transmission dynamics of coronavirus disease 2019 outside Hubei province, China: a descriptive and modelling study. Lancet Infectious Diseases, The, 2020, 20, 793-802.	9.1	541
44	The COVID-19 outbreak in Sichuan, China: Epidemiology and impact of interventions. PLoS Computational Biology, 2020, 16, e1008467.	3.2	17
45	Potential short-term outcome of an uncontrolled COVID-19 epidemic in Lombardy, Italy, February to March 2020. Eurosurveillance, 2020, 25, .	7.0	47
46	Age-specific SARS-CoV-2 infection fatality ratio and associated risk factors, Italy, February to April 2020. Eurosurveillance, 2020, 25, .	7.0	51
47	Epidemiological characteristics of COVID-19 cases and estimates of the reproductive numbers 1 month into the epidemic, Italy, 28 January to 31 March 2020. Eurosurveillance, 2020, 25, .	7.0	121
48	Mosquito Adaptation to the Extreme Habitats of Urban Construction Sites. Trends in Parasitology, 2019, 35, 607-614.	3.3	20
49	Reactive school closure weakens the network of social interactions and reduces the spread of influenza. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13174-13181.	7.1	127
50	Parental vaccination to reduce measles immunity gaps in Italy. ELife, 2019, 8, .	6.0	8
51	The RAPIDD ebola forecasting challenge: Synthesis and lessons learnt. Epidemics, 2018, 22, 13-21.	3.0	185
52	The RAPIDD Ebola forecasting challenge: Model description and synthetic data generation. Epidemics, 2018, 22, 3-12.	3.0	19
53	Measurability of the epidemic reproduction number in data-driven contact networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12680-12685.	7.1	199
54	Estimating contact patterns relevant to the spread of infectious diseases in Russia. Journal of Theoretical Biology, 2017, 419, 1-7.	1.7	56

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55	Detecting a Surprisingly Low Transmission Distance in the Early Phase of the 2009 Influenza Pandemic. Scientific Reports, 2017, 7, 12324.	3.3	9
56	Modeling mosquito-borne diseases in complex urban environments. Acta Tropica, 2017, 176, 332-334.	2.0	11
57	Host outdoor exposure variability affects the transmission and spread of Zika virus: Insights for epidemic control. PLoS Neglected Tropical Diseases, 2017, 11, e0005851.	3.0	34
58	Containing Ebola at the Source with Ring Vaccination. PLoS Neglected Tropical Diseases, 2016, 10, e0005093.	3.0	54
59	School closure policies at municipality level for mitigating influenza spread: a model-based evaluation. BMC Infectious Diseases, 2016, 16, 576.	2.9	22
60	Spatiotemporal dynamics of the Ebola epidemic in Guinea and implications for vaccination and disease elimination: a computational modeling analysis. BMC Medicine, 2016, 14, 130.	5.5	30
61	Model-Based Comprehensive Analysis of School Closure Policies for Mitigating Influenza Epidemics and Pandemics. PLoS Computational Biology, 2016, 12, e1004681.	3.2	39
62	The 2014 Ebola virus disease outbreak in Pujehun, Sierra Leone: epidemiology and impact of interventions. BMC Medicine, 2015, 13, 281.	5.5	50
63	Spatiotemporal spread of the 2014 outbreak of Ebola virus disease in Liberia and the effectiveness of non-pharmaceutical interventions: a computational modelling analysis. Lancet Infectious Diseases, The, 2015, 15, 204-211.	9.1	226
64	Effectiveness of contact investigations for tuberculosis control in Arkansas. Journal of Theoretical Biology, 2015, 380, 238-246.	1.7	12
65	Evaluating vaccination strategies for reducing infant respiratory syncytial virus infection in low-income settings. BMC Medicine, 2015, 13, 49.	5.5	56
66	The impact of demographic changes on the epidemiology of herpes zoster: Spain as a case study. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142509.	2.6	30
67	Behavioral Changes and Adaptation Induced by Epidemics. , 2015, , 155-175.		0
68	Deciphering the relative weights of demographic transition and vaccination in the decrease of measles incidence in Italy. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132676.	2.6	28
69	The role of different social contexts in shaping influenza transmission during the 2009 pandemic. Scientific Reports, 2014, 4, 7218.	3.3	32
70	Estimating measles transmission potential in Italy over the period 2010-2011. Annali Dell'Istituto Superiore Di Sanita, 2014, 50, 351-6.	0.4	1
71	Containing the accidental laboratory escape of potential pandemic influenza viruses. BMC Medicine, 2013, 11, 252.	5.5	30
72	Hope-Simpson's Progressive Immunity Hypothesis as a Possible Explanation for Herpes Zoster Incidence Data. American Journal of Epidemiology, 2013, 177, 1134-1142.	3.4	35

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73	Perspectives on the Impact of Varicella Immunization on Herpes Zoster. A Model-Based Evaluation from Three European Countries. PLoS ONE, 2013, 8, e60732.	2.5	64
74	Pandemic Influenza A/H1N1pdm in Italy: Age, Risk and Population Susceptibility. PLoS ONE, 2013, 8, e74785.	2.5	17
75	Uncoordinated Human Responses During Epidemic Outbreaks. , 2013, , 79-91.		3
76	Inferring the Structure of Social Contacts from Demographic Data in the Analysis of Infectious Diseases Spread. PLoS Computational Biology, 2012, 8, e1002673.	3.2	166
77	Risk perception and effectiveness of uncoordinated behavioral responses in an emerging epidemic. Mathematical Biosciences, 2012, 238, 80-89.	1.9	109
78	Transmission Potential and Design of Adequate Control Measures for Marburg Hemorrhagic Fever. PLoS ONE, 2012, 7, e50948.	2.5	28
79	Epidemiology and transmission dynamics of the 1918â€“19 pandemic influenza in Florence, Italy. Vaccine, 2011, 29, B27-B32.	3.8	7
80	The Effect of Risk Perception on the 2009 H1N1 Pandemic Influenza Dynamics. PLoS ONE, 2011, 6, e16460.	2.5	152
81	Model predictions and evaluation of possible control strategies for the 2009 A/H1N1v influenza pandemic in Italy. Epidemiology and Infection, 2011, 139, 68-79.	2.1	39
82	Spatiotemporal dynamics of viral hepatitis A in Italy. Theoretical Population Biology, 2011, 79, 1-11.	1.1	6
83	Modeling socio-demography to capture tuberculosis transmission dynamics in a low burden setting. Journal of Theoretical Biology, 2011, 289, 197-205.	1.7	32
84	Determinants of the Spatiotemporal Dynamics of the 2009 H1N1 Pandemic in Europe: Implications for Real-Time Modelling. PLoS Computational Biology, 2011, 7, e1002205.	3.2	102
85	Transmission Potential of Chikungunya Virus and Control Measures: The Case of Italy. PLoS ONE, 2011, 6, e18860.	2.5	122
86	Human mobility and population heterogeneity in the spread of an epidemic. Procedia Computer Science, 2010, 1, 2237-2244.	2.0	17
87	Comparing large-scale computational approaches to epidemic modeling: Agent-based versus structured metapopulation models. BMC Infectious Diseases, 2010, 10, 190.	2.9	222
88	The role of population heterogeneity and human mobility in the spread of pandemic influenza. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 557-565.	2.6	223
89	Little Italy: An Agent-Based Approach to the Estimation of Contact Patterns- Fitting Predicted Matrices to Serological Data. PLoS Computational Biology, 2010, 6, e1001021.	3.2	69
90	Age-prioritized use of antivirals during an influenza pandemic. BMC Infectious Diseases, 2009, 9, 117.	2.9	27

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91	An individual-based model of hepatitis A transmission. Journal of Theoretical Biology, 2009, 259, 478-488.	1.7	27
92	Spontaneous behavioural changes in response to epidemics. Journal of Theoretical Biology, 2009, 260, 31-40.	1.7	127
93	Coinfection can trigger multiple pandemic waves. Journal of Theoretical Biology, 2008, 254, 499-507.	1.7	46
94	Basic mathematical models for the temporal dynamics of HAV in medium-endemicity Italian areas. Vaccine, 2008, 26, 1697-1707.	3.8	26
95	The Impact of the Unstructured Contacts Component in Influenza Pandemic Modeling. PLoS ONE, 2008, 3, e1519.	2.5	21
96	Mitigation Measures for Pandemic Influenza in Italy: An Individual Based Model Considering Different Scenarios. PLoS ONE, 2008, 3, e1790.	2.5	143