Vittoria Colizza

List of Publications by Year
in descending order

128 papers	12,973 citations	61687 45 h-index	31191 106 g-index
162 all docs	162 docs citations	162 times ranked	13611 citing authors

#	Article	IF	Citations
1	Epidemiology and control of SARS-CoV-2 epidemics in partially vaccinated populations: a modeling study applied to France. BMC Medicine, 2022, 20, 33.	2.3	14
2	Perceived risk of opioid use disorder secondary to opioid analgesic medication use by the general population in France. European Journal of Pain, 2022, 26, 729-739.	1.4	4
3	OUP accepted manuscript. International Journal of Pharmacy Practice, 2022, , .	0.3	0
4	Agent-based modelling of reactive vaccination of workplaces and schools against COVID-19. Nature Communications, 2022, 13, 1414.	5.8	14
5	Evaluating COVID-19 Booster Vaccination Strategies in a Partially Vaccinated Population: A Modeling Study. Vaccines, 2022, 10, 479.	2.1	9
6	Modelling COVID-19 in school settings to evaluate prevention and control protocols. Anaesthesia, Critical Care & Pain Medicine, 2022, 41, 101047.	0.6	4
7	Screening and vaccination against COVID-19 to minimise school closure: a modelling study. Lancet Infectious Diseases, The, 2022, 22, 977-989.	4.6	37
8	Are People Optimistically Biased about the Risk of COVID-19 Infection? Lessons from the First Wave of the Pandemic in Europe. International Journal of Environmental Research and Public Health, 2022, 19, 436.	1.2	31
9	Spatial aggregation choice in the era of digital and administrative surveillance data. , 2022, 1, e0000039.		4
10	Impact of contact data resolution on the evaluation of interventions in mathematical models of infectious diseases. Journal of the Royal Society Interface, 2022, 19, .	1.5	4
11	Impact of mass testing during an epidemic rebound of SARS-CoV-2: a modelling study using the example of France. Eurosurveillance, 2021, 26, .	3.9	36
12	Modelling safe protocols for reopening schools during the COVID-19 pandemic in France. Nature Communications, 2021, 12, 1073.	5.8	68
13	Time to evaluate COVID-19 contact-tracing apps. Nature Medicine, 2021, 27, 361-362.	15.2	71
14	Health inequities in influenza transmission and surveillance. PLoS Computational Biology, 2021, 17, e1008642.	1.5	21
15	Reorganization of nurse scheduling reduces the risk of healthcare associated infections. Scientific Reports, 2021, 11, 7393.	1.6	6
16	Highlighting socio-economic constraints on mobility reductions during COVID-19 restrictions in France can inform effective and equitable pandemic response. Journal of Travel Medicine, 2021, 28, .	1.4	27
17	Anatomy of digital contact tracing: Role of age, transmission setting, adoption, and case detection. Science Advances, 2021, 7, .	4.7	53
18	Impact of January 2021 curfew measures on SARS-CoV-2 B.1.1.7 circulation in France. Eurosurveillance, 2021, 26, .	3.9	20

#	Article	IF	Citations
19	Using mobile phone data to reveal risk flow networks underlying the HIV epidemic in Namibia. Nature Communications, 2021, 12, 2837.	5.8	14
20	Untangling introductions and persistence in COVID-19 resurgence in Europe. Nature, 2021, 595, 713-717.	13.7	133
21	The missing season: The impacts of the COVID-19 pandemic on influenza. Vaccine, 2021, 39, 3645-3648.	1.7	35
22	Social fluidity mobilizes contagion in human and animal populations. ELife, 2021, 10, .	2.8	6
23	Projecting the COVID-19 epidemic risk in France for the summer 2021. Journal of Travel Medicine, 2021, 28, .	1.4	9
24	A modelling study investigating short and medium-term challenges for COVID-19 vaccination: From prioritisation to the relaxation of measures. EClinicalMedicine, 2021, 38, 101001.	3.2	45
25	Modelling the persistence and control of Rift Valley fever virus in a spatially heterogeneous landscape. Nature Communications, 2021, 12, 5593.	5.8	6
26	Early warning of infectious disease outbreaks on cattle-transport networks. PLoS ONE, 2021, 16, e0244999.	1.1	5
27	Underdetection of cases of COVID-19 in France threatens epidemic control. Nature, 2021, 590, 134-139.	13.7	196
28	Common communicable diseases in the general population in France during the COVID-19 pandemic. PLoS ONE, 2021, 16, e0258391.	1.1	19
29	Effect of delayed awareness and fatigue on the efficacy of self-isolation in epidemic control. Physical Review E, 2021, 104, 044316.	0.8	8
30	Infodemics: A new challenge for public health. Cell, 2021, 184, 6010-6014.	13.5	56
31	Adherence and sustainability of interventions informing optimal control against the COVID-19 pandemic. Communications Medicine, 2021, 1, .	1.9	21
32	Tracing and analysis of 288 early SARS-CoV-2 infections outside China: A modeling study. PLoS Medicine, 2020, 17, e1003193.	3.9	32
33	Evaluating the effect of demographic factors, socioeconomic factors, and risk aversion on mobility during the COVID-19 epidemic in France under lockdown: a population-based study. The Lancet Digital Health, 2020, 2, e638-e649.	5.9	227
34	Determinants and risk factors of gastroenteritis in the general population, a web-based cohort between 2014 and 2017 in France. BMC Public Health, 2020, 20, 1146.	1.2	5
35	Impact of lockdown on COVID-19 epidemic in ÃŽle-de-France and possible exit strategies. BMC Medicine, 2020, 18, 240.	2.3	305
36	Accommodating individual travel history and unsampled diversity in Bayesian phylogeographic inference of SARS-CoV-2. Nature Communications, 2020, 11, 5110.	5.8	118

#	Article	IF	Citations
37	Active and inactive quarantine in epidemic spreading on adaptive activity-driven networks. Physical Review E, 2020, 102, 020301.	0.8	24
38	Long-range movements coupled with heterogeneous incubation period sustain dog rabies at the national scale in Africa. PLoS Neglected Tropical Diseases, 2020, 14, e0008317.	1.3	18
39	Preparedness and vulnerability of African countries against importations of COVID-19: a modelling study. Lancet, The, 2020, 395, 871-877.	6.3	931
40	Mobile phone data for informing public health actions across the COVID-19 pandemic life cycle. Science Advances, 2020, 6, eabc0764.	4.7	439
41	Excess cases of influenza-like illnesses synchronous with coronavirus disease (COVID-19) epidemic, France, March 2020. Eurosurveillance, 2020, 25, .	3.9	41
42	Novel coronavirus (2019-nCoV) early-stage importation risk to Europe, January 2020. Eurosurveillance, 2020, 25, .	3.9	105
43	Tracing and analysis of 288 early SARS-CoV-2 infections outside China: A modeling study. , 2020, 17, e1003193.		0
44	Tracing and analysis of 288 early SARS-CoV-2 infections outside China: A modeling study. , 2020, 17, e1003193.		0
45	Tracing and analysis of 288 early SARS-CoV-2 infections outside China: A modeling study. , 2020, 17, e1003193.		0
46	Tracing and analysis of 288 early SARS-CoV-2 infections outside China: A modeling study. , 2020, 17, e1003193.		0
47	Tracing and analysis of 288 early SARS-CoV-2 infections outside China: A modeling study. , 2020, 17, e1003193.		0
48	Factors associated with influenza-like-illness: a crowdsourced cohort study from 2012/13 to 2017/18. BMC Public Health, 2019, 19, 879.	1.2	15
49	Mechanisms for lyssavirus persistence in non-synanthropic bats in Europe: insights from a modeling study. Scientific Reports, 2019, 9, 537.	1.6	15
50	Unsupervised extraction of epidemic syndromes from participatory influenza surveillance self-reported symptoms. PLoS Computational Biology, 2019, 15, e1006173.	1.5	20
51	Farm productive contexts and the dynamics of bovine viral diarrhea (BVD) transmission. Preventive Veterinary Medicine, 2019, 165, 23-33.	0.7	15
52	Disease persistence on temporal contact networks accounting for heterogeneous infectious periods. Royal Society Open Science, 2019, 6, 181404.	1.1	20
53	Population perception of mandatory childhood vaccination programme before its implementation, France, 2017. Eurosurveillance, 2019, 24, .	3.9	28
54	Epidemic Threshold in Continuous-Time Evolving Networks. Physical Review Letters, 2018, 120, 068302.	2.9	60

#	Article	IF	Citations
55	Modeling the impact of changes in day-care contact patterns on the dynamics of varicella transmission in France between 1991 and 2015. PLoS Computational Biology, 2018, 14, e1006334.	1.5	10
56	Network-based assessment of the vulnerability of Italian regions to bovine brucellosis. Preventive Veterinary Medicine, 2018, 158, 25-34.	0.7	16
57	The impact of regular school closure on seasonal influenza epidemics: a data-driven spatial transmission model for Belgium. BMC Infectious Diseases, 2018, 18, 29.	1.3	90
58	Shifting patterns of seasonal influenza epidemics. Scientific Reports, 2018, 8, 12786.	1.6	15
59	The potential value of crowdsourced surveillance systems in supplementing sentinel influenza networks: the case of France. Eurosurveillance, 2018, 23, .	3.9	21
60	Healthcare-seeking behaviour in case of influenza-like illness in the French general population and factors associated with a GP consultation: an observational prospective study. BJGP Open, 2018, 1, bjgpopen17X101253.	0.9	9
61	Human mobility networks and persistence of rapidly mutating pathogens. Royal Society Open Science, 2017, 4, 160914.	1.1	15
62	Assessing the use of mobile phone data to describe recurrent mobility patterns in spatial epidemic models. Royal Society Open Science, 2017, 4, 160950.	1.1	53
63	Surveillance for Outbreak Detection in Livestock-Trade Networks. Theoretical Biology, 2017, , 215-240.	0.0	10
64	Influenzanet: Citizens Among 10 Countries Collaborating to Monitor Influenza in Europe. JMIR Public Health and Surveillance, 2017, 3, e66.	1.2	56
65	Impact of spatially constrained sampling of temporal contact networks on the evaluation of the epidemic risk. European Journal of Applied Mathematics, 2016, 27, 941-957.	1.4	11
66	Risk of MERS importation and onward transmission: a systematic review and analysis of cases reported to WHO. BMC Infectious Diseases, 2016, 16, 448.	1.3	50
67	Participatory Syndromic Surveillance of Influenza in Europe. Journal of Infectious Diseases, 2016, 214, S386-S392.	1.9	83
68	Recalibrating disease parameters for increasing realism in modeling epidemics in closed settings. BMC Infectious Diseases, 2016, 16, 676.	1.3	9
69	Quantifying spatiotemporal heterogeneity of MERS-CoV transmission in the Middle East region: A combined modelling approach. Epidemics, 2016, 15, 1-9.	1.5	23
70	First nationwide web-based surveillance system for influenza-like illness in pregnant women: participation and representativeness of the French G-GrippeNet cohort. BMC Public Health, 2016, 16, 253.	1.2	7
71	Influenza during pregnancy: Incidence, vaccination coverage and attitudes toward vaccination in the French web-based cohort G-GrippeNet. Vaccine, 2016, 34, 2390-2396.	1.7	29
72	Real-Time Assessment of the International Spreading Risk Associated with the 2014 West African Ebola Outbreak. , 2016, , 39-56.		5

#	Article	IF	Citations
73	Analytical Computation of the Epidemic Threshold on Temporal Networks. Physical Review X, 2015, 5, .	2.8	98
74	Opinion about seasonal influenza vaccination among the general population 3 years after the A(H1N1)pdm2009 influenza pandemic. Vaccine, 2015, 33, 6849-6854.	1.7	16
75	Infection propagator approach to compute epidemic thresholds on temporal networks: impact of immunity and of limited temporal resolution. European Physical Journal B, 2015, 88, 1.	0.6	23
76	Characterising two-pathogen competition in spatially structured environments. Scientific Reports, 2015, 5, 7895.	1.6	31
77	Predicting Epidemic Risk from Past Temporal Contact Data. PLoS Computational Biology, 2015, 11, e1004152.	1.5	62
78	Effectiveness of 2012â€"2013 influenza vaccine against influenza-like illness in general population. Human Vaccines and Immunotherapeutics, 2014, 10, 536-543.	1.4	12
79	On the Use of Human Mobility Proxies for Modeling Epidemics. PLoS Computational Biology, 2014, 10, e1003716.	1.5	265
80	The representativeness of a European multi-center network for influenza-like-illness participatory surveillance. BMC Public Health, 2014, 14, 984.	1.2	42
81	Metapopulation epidemic models with heterogeneous mixing and travel behaviour. Theoretical Biology and Medical Modelling, 2014, 11, 3.	2.1	78
82	Association between Recruitment Methods and Attrition in Internet-Based Studies. PLoS ONE, 2014, 9, e114925.	1.1	32
83	Determinants of Follow-Up Participation in the Internet-Based European Influenza Surveillance Platform Influenzanet. Journal of Medical Internet Research, 2014, 16, e78.	2.1	32
84	Age-specific contacts and travel patterns in the spatial spread of 2009 H1N1 influenza pandemic. BMC Infectious Diseases, 2013, 13, 176.	1.3	72
85	Human mobility and time spent at destination: Impact on spatial epidemic spreading. Journal of Theoretical Biology, 2013, 338, 41-58.	0.8	70
86	Host Mobility Drives Pathogen Competition in Spatially Structured Populations. PLoS Computational Biology, 2013, 9, e1003169.	1.5	44
87	Evaluating the Feasibility and Participantsâ€™ Representativeness of an Online Nationwide Surveillance System for Influenza in France. PLoS ONE, 2013, 8, e73675.	1.1	50
88	Optimizing surveillance for livestock disease spreading through animal movements. Journal of the Royal Society Interface, 2012, 9, 2814-2825.	1.5	117
89	Heterogeneous length of stay of hostsâ€™ movements and spatial epidemic spread. Scientific Reports, 2012, 2, 476.	1.6	54
90	Real-time numerical forecast of global epidemic spreading: case study of 2009 A/H1N1pdm. BMC Medicine, 2012, 10, 165.	2.3	230

#	Article	IF	Citations
91	Simulation of an SEIR infectious disease model on the dynamic contact network of conference attendees. BMC Medicine, 2011, 9, 87.	2.3	296
92	Human Mobility Networks, Travel Restrictions, and the Global Spread of 2009 H1N1 Pandemic. PLoS ONE, 2011, 6, e16591.	1.1	391
93	Dynamical Patterns of Cattle Trade Movements. PLoS ONE, 2011, 6, e19869.	1.1	173
94	The GLEaMviz computational tool, a publicly available software to explore realistic epidemic spreading scenarios at the global scale. BMC Infectious Diseases, 2011, 11, 37.	1.3	193
95	Wearable Sensor Networks for Measuring Face-to-Face Contact Patterns in Healthcare Settings. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 192-195.	0.2	7
96	Assessing the Ecotoxicologic Hazards of a Pandemic Influenza Medical Response. Environmental Health Perspectives, 2011, 119, 1084-1090.	2.8	33
97	Close Encounters in a Pediatric Ward: Measuring Face-to-Face Proximity and Mixing Patterns with Wearable Sensors. PLoS ONE, 2011, 6, e17144.	1.1	193
98	The flu fighters. Physics World, 2010, 23, 26-30.	0.0	9
99	Modeling the spatial spread of infectious diseases: The GLobal Epidemic and Mobility computational model. Journal of Computational Science, 2010, 1, 132-145.	1.5	384
100	Comparing large-scale computational approaches to epidemic modeling: Agent-based versus structured metapopulation models. BMC Infectious Diseases, 2010, 10, 190.	1.3	222
101	Dynamics of Person-to-Person Interactions from Distributed RFID Sensor Networks. PLoS ONE, 2010, 5, e11596.	1.1	605
102	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. Emerging Health Threats Journal, 2009, 2, 7093.	3.0	11
103	WiFi networks and malware epidemiology. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1318-1323.	3.3	74
104	Seasonal transmission potential and activity peaks of the new influenza A(H1N1): a Monte Carlo likelihood analysis based on human mobility. BMC Medicine, 2009, 7, 45.	2.3	299
105	Multiscale mobility networks and the spatial spreading of infectious diseases. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21484-21489.	3.3	1,050
106	Using the Weighted Rich-Club Coefficient to Explore Traffic Organization in Mobility Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 680-692.	0.2	3
107	Estimate of Novel Influenza A/H1N1 cases in Mexico at the early stage of the pandemic with a spatially structured epidemic model. PLOS Currents, 2009, 1, RRN1129.	1.4	17
108	Modeling the critical care demand and antibiotics resources needed during the Fall 2009 wave of influenza A(H1N1) pandemic. PLOS Currents, 2009, 1, RRN1133.	1.4	20

#	Article	IF	Citations
109	Epidemic modeling in metapopulation systems with heterogeneous coupling pattern: Theory and simulations. Journal of Theoretical Biology, 2008, 251, 450-467.	0.8	390
110	Prominence and Control: The Weighted Rich-Club Effect. Physical Review Letters, 2008, 101, 168702.	2.9	279
111	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. Emerging Health Threats Journal, 2008, 2, e11.	3.0	15
112	EPIDEMIC PREDICTIONS AND PREDICTABILITY IN COMPLEX ENVIRONMENTS. Biophysical Reviews and Letters, 2008, 03, 217-226.	0.9	3
113	Publisher's Note: Prominence and Control: The Weighted Rich-Club Effect [Phys. Rev. Lett.101, 168702 (2008)]. Physical Review Letters, 2008, 101, .	2.9	30
114	EPIDEMIC PREDICTIONS AND PREDICTABILITY IN COMPLEX ENVIRONMENTS. , 2008, , .		0
115	Modeling the Worldwide Spread of Pandemic Influenza: Baseline Case and Containment Interventions. PLoS Medicine, 2007, 4, e13.	3.9	572
116	Epidemic modeling in complex realities. Comptes Rendus - Biologies, 2007, 330, 364-374.	0.1	57
117	Invasion Threshold in Heterogeneous Metapopulation Networks. Physical Review Letters, 2007, 99, 148701.	2.9	243
118	Reaction–diffusion processes and metapopulation models in heterogeneous networks. Nature Physics, 2007, 3, 276-282.	6.5	632
119	Predictability and epidemic pathways in global outbreaks of infectious diseases: the SARS case study. BMC Medicine, 2007, 5, 34.	2.3	154
120	Optimal paths in complex networks with correlated weights: The worldwide airport network. Physical Review E, 2006, 74, 056104.	0.8	50
121	The role of the airline transportation network in the prediction and predictability of global epidemics. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2015-2020.	3.3	897
122	EPIDEMIC MODELING AND COMPLEX REALITIES. , 2005, , .		0
123	Characterization and modeling of protein–protein interaction networks. Physica A: Statistical Mechanics and Its Applications, 2005, 352, 1-27.	1.2	68
124	Network Structures from Selection Principles. Physical Review Letters, 2004, 92, 198701.	2.9	62
125	On network form and function. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 749-755.	1.2	6
126	Fluctuation-dissipation ratio for compacting granular media. Physical Review E, 2002, 66, 011310.	0.8	18

#	Article	IF	Citations
127	Definition of temperature in dense granular media. Physical Review E, 2002, 65, 050301.	0.8	21
128	Controlling SARS-CoV-2 in schools using repetitive testing strategies. ELife, 0, 11, .	2.8	7