Giorgio Guzzetta

List of Publications by Year in descending order

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46 papers	1,903 citations	279798 23 h-index	302126 39 g-index
57 all docs	57 docs citations	57 times ranked	3233 citing authors

#	Article	IF	Citations
1	Population-level impact, herd immunity, and elimination after human papillomavirus vaccination: a systematic review and meta-analysis of predictions from transmission-dynamic models. Lancet Public Health, The, 2016, 1, e8-e17.	10.0	210
2	The early phase of the COVID-19 epidemic in Lombardy, Italy. Epidemics, 2021, 37, 100528.	3.0	158
3	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
4	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
5	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
6	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
7	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
8	Impact of a Nationwide Lockdown on SARS-CoV-2 Transmissibility, Italy. Emerging Infectious Diseases, 2021, 27, 267-270.	4.3	64
9	Age-specific SARS-CoV-2 infection fatality ratio and associated risk factors, Italy, February to April 2020. Eurosurveillance, 2020, 25, .	7.0	51
10	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
11	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
12	Transmission dynamics of the ongoing chikungunya outbreak in Central Italy: from coastal areas to the metropolitan city of Rome, summer 2017. Eurosurveillance, 2017, 22, .	7.0	44
13	The effect of COVID-19 vaccination in Italy and perspectives for living with the virus. Nature Communications, 2021, 12, 7272.	12.8	40
14	The effect of interspecific competition on the temporal dynamics of Aedes albopictus and Culex pipiens. Parasites and Vectors, 2017, 10, 102.	2.5	39
15	Assessing the potential risk of Zika virus epidemics in temperate areas with established Aedes albopictus populations. Eurosurveillance, 2016, 21, .	7.0	39
16	Quantifying the spatial spread of dengue in a non-endemic Brazilian metropolis via transmission chain reconstruction. Nature Communications, 2018, 9, 2837.	12.8	38
17	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
18	Potential Risk of Dengue and Chikungunya Outbreaks in Northern Italy Based on a Population Model of Aedes albopictus (Diptera: Culicidae). PLoS Neglected Tropical Diseases, 2016, 10, e0004762.	3.0	34

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19	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
20	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
21	Modeling socio-demography to capture tuberculosis transmission dynamics in a low burden setting. Journal of Theoretical Biology, 2011, 289, 197-205.	1.7	32
22	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
23	The Epidemiology of Herpes Zoster After Varicella Immunization Under Different Biological Hypotheses: Perspectives From Mathematical Modeling. American Journal of Epidemiology, 2016, 183, 765-773.	3.4	30
24	Effectiveness and economic assessment of routine larviciding for prevention of chikungunya and dengue in temperate urban settings in Europe. PLoS Neglected Tropical Diseases, 2017, 11, e0005918.	3.0	30
25	Quantifying the transmission dynamics of MRSA in the community and healthcare settings in a low-prevalence country. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14599-14605.	7.1	26
26	The Roles of Immune Memory and Aging in Protective Immunity and Endogenous Reactivation of Tuberculosis. PLoS ONE, 2013, 8, e60425.	2.5	20
27	First report of the influence of temperature on the bionomics and population dynamics of Aedes koreicus, a new invasive alien species in Europe. Parasites and Vectors, 2019, 12, 524.	2.5	20
28	The natural history of varicella zoster virus infection in Norway: Further insights on exogenous boosting and progressive immunity to herpes zoster. PLoS ONE, 2017, 12, e0176845.	2.5	19
29	A machine learning pipeline for quantitative phenotype prediction from genotype data. BMC Bioinformatics, 2010, 11, S3.	2.6	17
30	Spatial modes for transmission of chikungunya virus during a large chikungunya outbreak in Italy: a modeling analysis. BMC Medicine, 2020, 18, 226.	5.5	17
31	A comparative analysis of the 2007 and 2017 Italian chikungunya outbreaks and implication for public health response. PLoS Neglected Tropical Diseases, 2020, 14, e0008159.	3.0	17
32	First outbreak of Zika virus in the continental United States: a modelling analysis. Eurosurveillance, 2017, 22, .	7.0	17
33	Model-based evaluation of alternative reactive class closure strategies against COVID-19. Nature Communications, 2022, 13, 322.	12.8	17
34	Perspectives on optimal control of varicella and herpes zoster by mass routine varicella vaccination. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160054.	2.6	16
35	Effectiveness of Ultra-Low Volume insecticide spraying to prevent dengue in a non-endemic metropolitan area of Brazil. PLoS Computational Biology, 2019, 15, e1006831.	3.2	16
36	On the relationship between meningococcal transmission dynamics and disease: Remarks on humoral immunity. Vaccine, 2009, 27, 3429-3434.	3.8	15

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37	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
38	Effectiveness of contact investigations for tuberculosis control in Arkansas. Journal of Theoretical Biology, 2015, 380, 238-246.	1.7	12
39	Population dynamics of wild rodents induce stochastic fadeouts of a zoonotic pathogen. Journal of Animal Ecology, 2017, 86, 451-459.	2.8	12
40	Modeling the impact of combined vaccination programs against varicella and herpes zoster in Norway. Vaccine, 2018, 36, 1116-1125.	3.8	12
41	COVID-19 response: effectiveness of weekly rapid risk assessments, Italy. Bulletin of the World Health Organization, 2022, 100, 161-167.	3.3	10
42	The Impact of HPV Female Immunization in Italy: Model Based Predictions. PLoS ONE, 2014, 9, e91698.	2.5	8
43	Household transmission and disease transmissibility of a large HAV outbreak in Lazio, Italy, 2016â€“2017. Epidemics, 2019, 29, 100351.	3.0	8
44	A quantitative assessment of epidemiological parameters required to investigate COVID-19 burden. Epidemics, 2021, 37, 100530.	3.0	8
45	Assessing the risk of autochthonous yellow fever transmission in Lazio, central Italy. PLoS Neglected Tropical Diseases, 2019, 13, e0006970.	3.0	3
46	Early prediction of SARS-CoV-2 reproductive number from environmental, atmospheric and mobility data: A supervised machine learning approach. International Journal of Medical Informatics, 2022, 162, 104755.	3.3	3