Piero Manfredi

List of Publications by Year
in descending order

74 papers	2,751 citations	304743 22 h-index	189892 50 g-index
77 all docs	77 docs citations	77 times ranked	2718 citing authors

#	Article	IF	Citations
1	Statistical physics of vaccination. Physics Reports, 2016, 664, 1-113.	25.6	734
2	Vaccinating behaviour, information, and the dynamics of SIR vaccine preventable diseases. Theoretical Population Biology, 2007, 71, 301-317.	1.1	177
3	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
4	Mitigation Measures for Pandemic Influenza in Italy: An Individual Based Model Considering Different Scenarios. PLoS ONE, 2008, 3, e1790.	2.5	143
5	Information-related changes in contact patterns may trigger oscillations in the endemic prevalence of infectious diseases. Journal of Theoretical Biology, 2009, 256, 473-478.	1.7	122
6	Using Time-Use Data to Parameterize Models for the Spread of Close-Contact Infectious Diseases. American Journal of Epidemiology, 2008, 168, 1082-1090.	3.4	113
7	Chaotic business cycles and fiscal policy: An IS-LM model with distributed tax collection lags. Chaos, Solitons and Fractals, 2007, 32, 736-744.	5.1	85
8	Social Contact Structures and Time Use Patterns in the Manicaland Province of Zimbabwe. PLoS ONE, 2017, 12, e0170459.	2.5	84
9	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
10	The impact of vaccine side effects on the natural history of immunization programmes: An imitation-game approach. Journal of Theoretical Biology, 2011, 273, 63-71.	1.7	65
11	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
12	Optimal vaccination choice, vaccination games, and rational exemption: An appraisal. Vaccine, 2009, 28, 98-109.	3.8	56
13	The Interplay of Public Intervention and Private Choices in Determining the Outcome of Vaccination Programmes. PLoS ONE, 2012, 7, e45653.	2.5	54
14	Coinfection can trigger multiple pandemic waves. Journal of Theoretical Biology, 2008, 254, 499-507.	1.7	46
15	Fatal SIR diseases and rational exemption to vaccination. Mathematical Medicine and Biology, 2008, 25, 337-357.	1.2	42
16	Vaccine demand driven by vaccine side effects: Dynamic implications for SIR diseases. Journal of Theoretical Biology, 2010, 264, 237-252.	1.7	42
17	The relative importance of frequency of contacts and duration of exposure for the spread of directly transmitted infections. Biostatistics, 2014, 15, 470-483.	1.5	36
18	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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19	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
20	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
21	Basic mathematical models for the temporal dynamics of HAV in medium-endemicity Italian areas. Vaccine, 2008, 26, 1697-1707.	3.8	26
22	Lifeâ€history tables of the Mediterranean fin whale from stranding data. Marine Ecology, 2011, 32, 1-9.	1.1	26
23	Realistic population dynamics in epidemiological models: the impact of population decline on the dynamics of childhood infectious diseases. Mathematical Biosciences, 2004, 192, 153-175.	1.9	21
24	Behavioral Epidemiology of Infectious Diseases: An Overview. , 2013, , 1-19.		20
25	Cycles in dynamic economic modelling. Economic Modelling, 2004, 21, 573-594.	3.8	19
26	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
27	COVIDâ€19 epidemic and mitigation policies: Positive and normative analyses in a neoclassical growth model. Journal of Public Economic Theory, 2022, 24, 968-992.	1.1	19
28	Macroâ€demographic effects of the transition to adulthood: Multistate stable population theory and an application to Italy. Mathematical Population Studies, 2000, 9, 33-63.	2.2	18
29	Heterogeneity in regional notification patterns and its impact on aggregate national case notification data: the example of measles in Italy. BMC Public Health, 2003, 3, 23.	2.9	18
30	Ageing populations and childhood infections: the potential impact on epidemic patterns and morbidity. International Journal of Epidemiology, 2004, 33, 566-572.	1.9	17
31	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
32	What do adoption patterns of solar panels observed so far tell about governmentsâ€™ incentive? Insights from diffusion models. Technological Forecasting and Social Change, 2020, 160, 120240.	11.6	16
33	The role of gas on future perspectives of renewable energy diffusion: Bridging technology or lock-in?. Renewable and Sustainable Energy Reviews, 2021, 152, 111673.	16.4	16
34	Population, Unemployment and Economic Growth Cycles: A Further Explanatory Perspective. Metroeconomica, 2003, 54, 179-207.	1.0	15
35	The pre-vaccination regional epidemiological landscape of measles in Italy: contact patterns, effort needed for eradication, and comparison with other regions of Europe. Population Health Metrics, 2005, 3, 1.	2.7	15
36	Spatial behavioural responses to the spread of an infectious disease can suppress Turing and Turingâ€“Hopf patterning of the disease. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123773.	2.6	15

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37	Demographic Change and Immigration in Age-structured Epidemic Models. Mathematical Population Studies, 2007, 14, 169-191.	2.2	14
38	Towards measles elimination in Italy: Monitoring herd immunity by Bayesian mixture modelling of serological data. Epidemics, 2012, 4, 124-131.	3.0	14
39	Optimal time-profiles of public health intervention to shape voluntary vaccination for childhood diseases. Journal of Mathematical Biology, 2019, 78, 1089-1113.	1.9	14
40	Estimating Age-Specific Immunity and Force of Infection of Varicella Zoster Virus in Norway Using Mixture Models. PLoS ONE, 2016, 11, e0163636.	2.5	14
41	Modeling the impact of combined vaccination programs against varicella and herpes zoster in Norway. Vaccine, 2018, 36, 1116-1125.	3.8	12
42	Neoclassical growth with endogenous age distribution. Poverty vs low-fertility traps as steady states of demographic transitions. Journal of Population Economics, 2013, 26, 1457-1484.	5.6	11
43	DEMOGRAPHY IN MACROECONOMIC MODELS: WHEN LABOUR SUPPLY MATTERS FOR ECONOMIC CYCLES. Metroeconomica, 2006, 57, 536-563.	1.0	10
44	Neoclassical labour market dynamics, chaos and the real wage Phillips curve. Journal of Economic Behavior and Organization, 2007, 62, 470-483.	2.0	10
45	The potential impact of the demographic transition in the Senegal-Gambia region of sub-Saharan Africa on the burden of infectious disease and its potential synergies with control programmes: the case of hepatitis B. BMC Medicine, 2018, 16, 118.	5.5	10
46	The complex effects of demographic heterogeneity on the interaction between the economy and population. Structural Change and Economic Dynamics, 2006, 17, 148-173.	4.5	9
47	General methods for measuring and comparing medical interventions in childbirth: a framework. BMC Pregnancy and Childbirth, 2020, 20, 279.	2.4	9
48	A contribution to the theory of economic development and the demographic transition: fertility reversal under the HIV epidemic. Journal of Demographic Economics, 2020, 86, 125-155.	1.2	9
49	The Impact of HPV Female Immunization in Italy: Model Based Predictions. PLoS ONE, 2014, 9, e91698.	2.5	8
50	Population dynamics and demography of Covid-19. Introduction. Genus, 2021, 77, 36.	1.7	8
51	Behavioral SIR models with incidence-based social-distancing. Chaos, Solitons and Fractals, 2022, 159, 112072.	5.1	8
52	Epidemiology and transmission dynamics of the 1918â€“19 pandemic influenza in Florence, Italy. Vaccine, 2011, 29, B27-B32.	3.8	7
53	The Tragedy of the Commons as a Prisonerâ€™s Dilemma. Its Relevance for Sustainability Games. Sustainability, 2021, 13, 8125.	3.2	7
54	Evidence of disorientation towards immunization on online social media after contrasting political communication on vaccines. Results from an analysis of Twitter data in Italy. PLoS ONE, 2021, 16, e0253569.	2.5	7

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55	Economic development with deadly communicable diseases and public prevention. Journal of Public Economic Theory, 2022, 24, 912-943.	1.1	7
56	Long-term Effects of the Efficiency Wage Hypothesis in Goodwin-type Economies. Metroeconomica, 2000, 51, 454-481.	1.0	6
57	Spatiotemporal dynamics of viral hepatitis A in Italy. Theoretical Population Biology, 2011, 79, 1-11.	1.1	6
58	A PARSIMONIOUS MODEL OF LONGEVITY, FERTILITY, HIV TRANSMISSION AND DEVELOPMENT. Macroeconomic Dynamics, 2021, 25, 1155-1174.	0.7	6
59	Individualâ€™s daily behaviour and intergenerational mixing in different social contexts of Kenya. Scientific Reports, 2021, 11, 21589.	3.3	6
60	Diffusion of Solar PV Energy in the UK: A Comparison of Sectoral Patterns. Forecasting, 2022, 4, 456-476.	2.8	6
61	Bistable Endemic States in a Susceptible-Infectious-Susceptible Model with Behavior-Dependent Vaccination. , 2016, , 341-354.		5
62	Dynamic behaviour of a discrete-time SIR model with information dependent vaccine uptake. Journal of Difference Equations and Applications, 2016, 22, 485-512.	1.1	5
63	Spatio-temporal games of voluntary vaccination in the absence of the infection: the interplay of local versus non-local information about vaccine adverse events. Mathematical Biosciences and Engineering, 2020, 17, 1090-1131.	1.9	4
64	IS LABOUR MARKET FLEXIBILITY DESIRABLE OR HARMFUL? A FURTHER DYNAMIC PERSPECTIVE. Metroeconomica, 2010, 61, 257-266.	1.0	3
65	Quantifying the re-exposure process to an infectious agent. Measles and Varicella as examples. Mathematical Biosciences, 2013, 245, 31-39.	1.9	3
66	The Interplay Between Voluntary Vaccination and Reduction of Risky Behavior: A General Behavior-Implicit SIR Model for Vaccine Preventable Infections. SEMA SIMAI Springer Series, 2020, , 185-203.	0.7	3
67	Multiple epidemic waves as the outcome of stochastic SIR epidemics with behavioral responses: a hybrid modeling approach. Nonlinear Dynamics, 2022, , 1-40.	5.2	3
68	Long-term Effects of the Efficiency Wage Hypothesis in Goodwin-type Economies: A Reply. Metroeconomica, 2000, 51, 488-491.	1.0	2
69	Neoclassical production theory and growth with unemployment: The stability issue revisited. Structural Change and Economic Dynamics, 2009, 20, 126-135.	4.5	2
70	Models for optimally controlling varicella and herpes zoster by varicella vaccination: a comparative study. Medical and Biological Engineering and Computing, 2019, 57, 1121-1132.	2.8	2
71	Dynamics of partially mitigated multi-phasic epidemics at low susceptible depletion: phases of COVID-19 control in Italy as case study. Mathematical Biosciences, 2021, 340, 108671.	1.9	2
72	An improved model life table for the Indian River Lagoon bottlenose dolphin population and remarks on early mortality. Marine Mammal Science, 2016, 32, 1522-1528.	1.8	1

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73	Instability and Sustained Oscillations in Neo-Classical Growth Models with Unemployment. , 2008, , 321-342.		0
74	Endogenous Age Structure in Descriptive Macroeconomic Growth Models: A General Framework and Some Steady State Analysis. , 2010, , .		0