

Mimmo Iannelli

List of Publications by Year in descending order

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62
papers

1,518
citations

331670

21
h-index

315739

38
g-index

63
all docs

63
docs citations

63
times ranked

1032
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigation Measures for Pandemic Influenza in Italy: An Individual Based Model Considering Different Scenarios. PLoS ONE, 2008, 3, e1790.	2.5	143
2	Strain replacement in an epidemic model with super-infection and perfect vaccination. Mathematical Biosciences, 2005, 195, 23-46.	1.9	126
3	Global Behavior of an Age-Structured Epidemic Model. SIAM Journal on Mathematical Analysis, 1991, 22, 1065-1080.	1.9	108
4	A Two-Strain Tuberculosis Model with Age of Infection. SIAM Journal on Applied Mathematics, 2002, 62, 1634-1656.	1.8	91
5	Population dynamics and conservation biology of the over-exploited Mediterranean red coral. Journal of Theoretical Biology, 2007, 244, 416-423.	1.7	88
6	Separable models in age-dependent population dynamics. Journal of Mathematical Biology, 1985, 22, 145-173.	1.9	73
7	Endemic Thresholds and Stability in a Class of Age-Structured Epidemics. SIAM Journal on Applied Mathematics, 1988, 48, 1379-1395.	1.8	73
8	A class of nonlinear diffusion problems in age-dependent population dynamics. Nonlinear Analysis: Theory, Methods & Applications, 1983, 7, 501-529.	1.1	65
9	On the Controllability of the Lotka-McKendrick Model of Population Dynamics. Journal of Mathematical Analysis and Applications, 2001, 253, 142-165.	1.0	57
10	Existence and regularity for a class of integrodifferential equations of parabolic type. Journal of Mathematical Analysis and Applications, 1985, 112, 36-55.	1.0	55
11	On the approximation of the Lotka-McKendrick equation with finite life-span. Journal of Computational and Applied Mathematics, 2001, 136, 245-254.	2.0	42
12	Mathematical modelling for conservation and management of gorgonians corals: young and olds, could they coexist?. Ecological Modelling, 2009, 220, 2851-2856.	2.5	42
13	Existence and uniqueness of endemic states for the age-structured SIR epidemic model. Mathematical Biosciences, 1998, 150, 177-190.	1.9	38
14	Sexual structure of a highly reproductive, recovering gorgonian population: quantifying reproductive output. Marine Ecology - Progress Series, 2012, 469, 25-36.	1.9	33
15	Asymptotic behavior for an SIS epidemic model and its approximation. Nonlinear Analysis: Theory, Methods & Applications, 1999, 35, 797-814.	1.1	29
16	An age-structured model of epidermis growth. Journal of Mathematical Biology, 2011, 62, 111-141.	1.9	28
17	Stability Analysis of the Gurtin-MacCamy Model. SIAM Journal on Numerical Analysis, 2008, 46, 980-995.	2.3	27
18	Approach to equilibrium in age structured populations with an increasing recruitment process. Journal of Mathematical Biology, 1982, 13, 371-382.	1.9	26

#	ARTICLE	IF	CITATIONS
19	Basic mathematical models for the temporal dynamics of HAV in medium-endemicity Italian areas. <i>Vaccine</i> , 2008, 26, 1697-1707.	3.8	26
20	Splitting methods for the numerical approximation of some models of age-structured population dynamics and epidemiology. <i>Applied Mathematics and Computation</i> , 1997, 87, 69-93.	2.2	24
21	Using demographic models to project the effects of climate change on scleractinian corals: <i>Pocillopora damicornis</i> as a case study. <i>Coral Reefs</i> , 2015, 34, 505-515.	2.2	24
22	A degenerate nonlinear diffusion problem in age-structured population dynamics. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1983, 7, 1411-1429.	1.1	23
23	On a method for studying abstract evolution equations in the hyperbolic case. <i>Communications in Partial Differential Equations</i> , 1976, 1, 585-608.	2.2	22
24	Stability analysis of age-structured population equations by pseudospectral differencing methods. <i>Journal of Mathematical Biology</i> , 2007, 54, 701-720.	1.9	20
25	Numerical methods for the Lotka-McKendrick's equation. <i>Journal of Computational and Applied Mathematics</i> , 2006, 197, 534-557.	2.0	19
26	Scenarios of diffusion and control of an influenza pandemic in Italy. <i>Epidemiology and Infection</i> , 2008, 136, 1650-1657.	2.1	19
27	Age-structured diffusion in a multi-layer environment. <i>Nonlinear Analysis: Real World Applications</i> , 2005, 6, 207-223.	1.7	18
28	Global boundedness of the solutions to a Gurtin-MacCamy system. <i>Nonlinear Differential Equations and Applications</i> , 2002, 9, 197-216.	0.8	17
29	The HIV/AIDS epidemics among drug injectors: A study of contact structure through a mathematical model. <i>Mathematical Biosciences</i> , 1997, 139, 25-58.	1.9	15
30	A fourth-order method for numerical integration of age- and size-structured population models. <i>Numerical Methods for Partial Differential Equations</i> , 2009, 25, 918-930.	3.6	15
31	Demographic Change and Immigration in Age-structured Epidemic Models. <i>Mathematical Population Studies</i> , 2007, 14, 169-191.	2.2	14
32	Optimal Screening in Structured SIR Epidemics. <i>Mathematical Modelling of Natural Phenomena</i> , 2012, 7, 12-27.	2.4	14
33	An AIDS model with distributed incubation and variable infectiousness: Applications to IV drug users in Latium, Italy. <i>European Journal of Epidemiology</i> , 1992, 8, 585-593.	5.7	11
34	Neoclassical growth with endogenous age distribution. Poverty vs low-fertility traps as steady states of demographic transitions. <i>Journal of Population Economics</i> , 2013, 26, 1457-1484.	5.6	11
35	On a certain class of semilinear evolution systems. <i>Journal of Mathematical Analysis and Applications</i> , 1976, 56, 351-367.	1.0	9
36	Mathematical Problems in the Description of Age Structured Populations. <i>Lecture Notes in Biomathematics</i> , 1985, , 19-32.	0.3	8

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37	Convergence in a multi-layer population model with age-structure. <i>Nonlinear Analysis: Real World Applications</i> , 2007, 8, 887-902.	1.7	7
38	Mathematical modeling of bacterial virulence and host-pathogen interactions in the Dictyostelium/Pseudomonas system. <i>Journal of Theoretical Biology</i> , 2011, 270, 19-24.	1.7	7
39	Two-sex age structured dynamics in a fixed sex-ratio population. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 2562-2577.	1.7	7
40	Control Strategies for TB Epidemics. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 82-107.	1.8	7
41	R_0 and the global behavior of an age-structured SIS epidemic model with periodicity and vertical transmission. <i>Mathematical Biosciences and Engineering</i> , 2014, 11, 929-945.	1.9	6
42	Growth Patterns in Long-Lived Coral Species. , 2017, , 595-626.		6
43	Polyp longevity in a precious gorgonian coral: hints toward a demographic approach to polyp dynamics. <i>Coral Reefs</i> , 2020, 39, 1125-1136.	2.2	5
44	Numerical Analysis of a Model for the Spread of HIV/AIDS. <i>SIAM Journal on Numerical Analysis</i> , 1996, 33, 864-882.	2.3	4
45	Time evolution for a model of epidermis growth. <i>Journal of Evolution Equations</i> , 2013, 13, 509-533.	1.1	4
46	Demography of Animal Forests: The Example of Mediterranean Gorgonians. , 2017, , 529-548.		4
47	Approximation of a population dynamics model by parabolic regularization. <i>Mathematical Methods in the Applied Sciences</i> , 2013, 36, 1229-1239.	2.3	3
48	Dynamics of partially mitigated multi-phasic epidemics at low susceptible depletion: phases of COVID-19 control in Italy as case study. <i>Mathematical Biosciences</i> , 2021, 340, 108671.	1.9	2
49	Harvesting Control for an Age-Structured Population in a Multilayered Habitat. <i>Journal of Optimization Theory and Applications</i> , 2009, 142, 107-124.	1.5	1
50	Stabilization of the Gurtin-MacCamy population system. <i>Journal of Evolution Equations</i> , 2009, 9, 727-745.	1.1	1
51	The steady state of epidermis: mathematical modeling and numerical simulations. <i>Journal of Mathematical Biology</i> , 2016, 73, 1595-1626.	1.9	1
52	A system of nonlinear degenerate parabolic equations.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1986, 1986, 1-15.	0.9	0
53	Epidemics in Wildlife. <i>Mathematical Population Studies</i> , 2006, 13, 117-118.	2.2	0
54	Facing Emerging and Re-emerging Diseases. <i>Mathematical Population Studies</i> , 2006, 13, 179-179.	2.2	0

#	ARTICLE	IF	CITATIONS
55	Why Age Structure? An Introduction. Lecture Notes on Mathematical Modelling in the Life Sciences, 2017, , 1-48.	0.4	0
56	Epidemics and Demography. Lecture Notes on Mathematical Modelling in the Life Sciences, 2017, , 277-319.	0.4	0
57	Numerical Methods for the Linear Model. Lecture Notes on Mathematical Modelling in the Life Sciences, 2017, , 89-122.	0.4	0
58	Nonlinear Models. Lecture Notes on Mathematical Modelling in the Life Sciences, 2017, , 141-172.	0.4	0
59	Stability of Equilibria. Lecture Notes on Mathematical Modelling in the Life Sciences, 2017, , 173-200.	0.4	0
60	Numerical Methods for the Nonlinear Model. Lecture Notes on Mathematical Modelling in the Life Sciences, 2017, , 201-217.	0.4	0
61	37 Demography and Conservation of Deep Corals: The Study of Population Structure and Dynamics. Coral Reefs of the World, 2019, , 423-434.	0.7	0
62	The Basal Layer of the Epidermis: A Mathematical Model for Cell Production Under a Surface Density Constraint. SIAM Journal on Applied Mathematics, 2020, 80, 543-571.	1.8	0