

# Marino Gatto

## List of Publications by Year in descending order

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140  
papers

4,873  
citations

101543

36  
h-index

118850

62  
g-index

151  
all docs

151  
docs citations

151  
times ranked

5548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning Segmentation of Satellite Imagery Identifies Aquatic Vegetation Associated with Snail Intermediate Hosts of Schistosomiasis in Senegal, Africa. <i>Remote Sensing</i> , 2022, 14, 1345.	4.0	11
2	Epidemicity of cholera spread and the fate of infection control measures. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210844.	3.4	1
3	Optimal control of the spatial allocation of COVID-19 vaccines: Italy as a case study. <i>PLoS Computational Biology</i> , 2022, 18, e1010237.	3.2	19
4	Range of reproduction number estimates for COVID-19 spread. <i>Biochemical and Biophysical Research Communications</i> , 2021, 538, 253-258.	2.1	13
5	The epidemicity index of recurrent SARS-CoV-2 infections. <i>Nature Communications</i> , 2021, 12, 2752.	12.8	8
6	Identification of Ecological Hotspots for the Seagrass <i>Posidonia oceanica</i> via Metapopulation Modeling. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	3
7	Species. , 2020, , 47-113.		0
8	Populations. , 2020, , 114-224.		0
9	Waterborne Disease. , 2020, , 225-339.		0
10	Afterthoughts and Outlook. , 2020, , 340-361.		0
11	The geography of COVID-19 spread in Italy and implications for the relaxation of confinement measures. <i>Nature Communications</i> , 2020, 11, 4264.	12.8	110
12	Spread and dynamics of the COVID-19 epidemic in Italy: Effects of emergency containment measures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10484-10491.	7.1	878
13	Extending full protection inside existing marine protected areas, or reducing fishing effort outside, can reconcile conservation and fisheries goals. <i>Journal of Applied Ecology</i> , 2020, 57, 1948-1957.	4.0	7
14	Spatial patterns and temporal variability of seagrass connectivity in the Mediterranean Sea. <i>Diversity and Distributions</i> , 2020, 26, 169-182.	4.1	10
15	Protection reveals density-dependent dynamics in fish populations: A case study in the central Mediterranean. <i>PLoS ONE</i> , 2020, 15, e0228604.	2.5	5
16	Within-host mechanisms of immune regulation explain the contrasting dynamics of two helminth species in both single and dual infections. <i>PLoS Computational Biology</i> , 2020, 16, e1008438.	3.2	8
17	Modelled effects of prawn aquaculture on poverty alleviation and schistosomiasis control. <i>Nature Sustainability</i> , 2019, 2, 611-620.	23.7	32
18	A demographic model for the conservation and management of the European eel: an application to a Mediterranean coastal lagoon. <i>ICES Journal of Marine Science</i> , 2019, , .	2.5	10

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19	Conditions for transient epidemics of waterborne disease in spatially explicit systems. <i>Royal Society Open Science</i> , 2019, 6, 181517.	2.4	23
20	Epidemicity thresholds for water-borne and water-related diseases. <i>Journal of Theoretical Biology</i> , 2018, 447, 126-138.	1.7	22
21	Spread of proliferative kidney disease in fish along stream networks: A spatial metacommunity framework. <i>Freshwater Biology</i> , 2018, 63, 114-127.	2.4	37
22	River networks as ecological corridors: A coherent ecohydrological perspective. <i>Advances in Water Resources</i> , 2018, 112, 27-58.	3.8	58
23	Assessing the effectiveness of a large marine protected area for reef shark conservation. <i>Biological Conservation</i> , 2017, 207, 64-71.	4.1	109
24	Modeling Key Drivers of Cholera Transmission Dynamics Provides New Perspectives for Parasitology. <i>Trends in Parasitology</i> , 2017, 33, 587-599.	3.3	22
25	A generalized definition of reactivity for ecological systems and the problem of transient species dynamics. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1574-1584.	5.2	28
26	Big-data-driven modeling unveils country-wide drivers of endemic schistosomiasis. <i>Scientific Reports</i> , 2017, 7, 489.	3.3	58
27	Integrated field, laboratory, and theoretical study of PKD spread in a Swiss prealpine river. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11992-11997.	7.1	60
28	Heterogeneity in schistosomiasis transmission dynamics. <i>Journal of Theoretical Biology</i> , 2017, 432, 87-99.	1.7	40
29	The spatial spread of schistosomiasis: A multidimensional network model applied to Saint-Louis region, Senegal. <i>Advances in Water Resources</i> , 2017, 108, 406-415.	3.8	45
30	Understanding large-scale, long-term larval connectivity patterns: The case of the Northern Line Islands in the Central Pacific Ocean. <i>PLoS ONE</i> , 2017, 12, e0182681.	2.5	1
31	On the probability of extinction of the Haiti cholera epidemic. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 2043-2055.	4.0	41
32	Body size and meta-community structure: the allometric scaling of parasitic worm communities in their mammalian hosts. <i>Parasitology</i> , 2016, 143, 880-893.	1.5	8
33	An epidemiological model for proliferative kidney disease in salmonid populations. <i>Parasites and Vectors</i> , 2016, 9, 487.	2.5	32
34	Hydrology and density feedbacks control the ecology of intermediate hosts of schistosomiasis across habitats in seasonal climates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6427-6432.	7.1	61
35	Looking for hotspots of marine metacommunity connectivity: a methodological framework. <i>Scientific Reports</i> , 2016, 6, 23705.	3.3	58
36	Detection of <i>Vibrio cholerae</i> O1 and O139 in environmental waters of rural Bangladesh: a flow-cytometry-based field trial. <i>Epidemiology and Infection</i> , 2015, 143, 2330-2342.	2.1	6

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37	A global viability assessment of the European eel. <i>Global Change Biology</i> , 2015, 21, 3323-3335.	9.5	36
38	A Theoretical Analysis of the Geography of Schistosomiasis in Burkina Faso Highlights the Roles of Human Mobility and Water Resources Development in Disease Transmission. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004127.	3.0	34
39	On the predictive ability of mechanistic models for the Haitian cholera epidemic. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140840.	3.4	25
40	The temporal patterns of disease severity and prevalence in schistosomiasis. <i>Chaos</i> , 2015, 25, 036405.	2.5	13
41	A user-friendly tool to assess management plans for European eel fishery and conservation. <i>Environmental Modelling and Software</i> , 2015, 64, 9-17.	4.5	14
42	MODELLI SPAZIO-TEMPORALI DI DIFFUSIONE, PREVISIONE E CONTROLLO DELLE EPIDEMIE DI COLERA: DAL SUDAFRICA AD HAITI. <i>Istituto Lombardo - Accademia Di Scienze E Lettere - Rendiconti Di Scienze</i> , 2014, , .	0.0	0
43	Cholera in the Lake Kivu region (DRC): Integrating remote sensing and spatially explicit epidemiological modeling. <i>Water Resources Research</i> , 2014, 50, 5624-5637.	4.2	27
44	Glucose- but Not Rice-Based Oral Rehydration Therapy Enhances the Production of Virulence Determinants in the Human Pathogen <i>Vibrio cholerae</i> . <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3347.	3.0	34
45	Metapopulation persistence and species spread in river networks. <i>Ecology Letters</i> , 2014, 17, 426-434.	6.4	113
46	Floquet theory for seasonal environmental forcing of spatially explicit waterborne epidemics. <i>Theoretical Ecology</i> , 2014, 7, 351-365.	1.0	33
47	Light and hydrologic variability as drivers of stream biofilm dynamics in a flume experiment. <i>Ecohydrology</i> , 2014, 7, 391-400.	2.4	5
48	Understanding the effectiveness of marine protected areas using genetic connectivity patterns and Lagrangian simulations. <i>Diversity and Distributions</i> , 2013, 19, 1531-1542.	4.1	74
49	Rainfall mediations in the spreading of epidemic cholera. <i>Advances in Water Resources</i> , 2013, 60, 34-46.	3.8	17
50	Optimisation of combustion bioenergy in a farming district under different localisation strategies. <i>Biomass and Bioenergy</i> , 2013, 58, 20-30.	5.7	13
51	Spatially Explicit Conditions for Waterborne Pathogen Invasion. <i>American Naturalist</i> , 2013, 182, 328-346.	2.1	37
52	Integrating field data into individual-based models of the migration of European eel larvae. <i>Marine Ecology - Progress Series</i> , 2013, 487, 135-149.	1.9	31
53	Modelling cholera epidemics: the role of waterways, human mobility and sanitation. <i>Journal of the Royal Society Interface</i> , 2012, 9, 376-388.	3.4	143
54	Reassessment of the 2010–2011 Haiti cholera outbreak and rainfall-driven multiseason projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6602-6607.	7.1	153

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55	Sex- and age-structured models for Alpine ibex <i>Capra ibex ibex</i> population dynamics. <i>Wildlife Biology</i> , 2012, 18, 318-332.	1.4	19
56	Generalized reproduction numbers and the prediction of patterns in waterborne disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19703-19708.	7.1	76
57	Assessing Dispersal Patterns of Fish Propagules from an Effective Mediterranean Marine Protected Area. <i>PLoS ONE</i> , 2012, 7, e52108.	2.5	54
58	A bootstrap approach to account for uncertainty in egg production methods applied to small fish stocks. <i>Fisheries Research</i> , 2012, 117-118, 130-136.	1.7	6
59	Hydroclimatology of dual-peak annual cholera incidence: Insights from a spatially explicit model. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	27
60	The role of aquatic reservoir fluctuations in long-term cholera patterns. <i>Epidemics</i> , 2012, 4, 33-42.	3.0	25
61	On the role of human mobility in the spread of cholera epidemics: towards an epidemiological movement ecology. <i>Ecohydrology</i> , 2012, 5, 531-540.	2.4	21
62	Hydrologic controls and anthropogenic drivers of the zebra mussel invasion of the Mississippi-Missouri river system. <i>Water Resources Research</i> , 2011, 47, .	4.2	38
63	Prediction of the spatial evolution and effects of control measures for the unfolding Haiti cholera outbreak. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	82
64	Erratum to "Body growth and mortality of the spiny lobster <i>Palinurus elephas</i> within and outside a small marine protected area" [Fish. Res. 106 (2010) 543-549]. <i>Fisheries Research</i> , 2011, 108, 404.	1.7	0
65	A Transmission Model of the 2010 Cholera Epidemic in Haiti. <i>Annals of Internal Medicine</i> , 2011, 155, 403.	3.9	7
66	Intra-specific scaling of natural mortality in fish: the paradigmatic case of the European eel. <i>Oecologia</i> , 2011, 165, 333-339.	2.0	46
67	Modelling human movement in cholera spreading along fluvial systems. <i>Ecohydrology</i> , 2011, 4, 49-55.	2.4	20
68	On spatially explicit models of cholera epidemics. <i>Journal of the Royal Society Interface</i> , 2010, 7, 321-333.	3.4	166
69	Body growth and mortality of the spiny lobster <i>Palinurus elephas</i> within and outside a small marine protected area. <i>Fisheries Research</i> , 2010, 106, 543-549.	1.7	15
70	Central-place seed foraging and vegetation patterns. <i>Theoretical Population Biology</i> , 2009, 76, 229-240.	1.1	4
71	When will the zebra mussel reach Florence? A model for the spread of <i>Dreissena polymorpha</i> in the Arno water system (Italy). <i>Ecohydrology</i> , 2009, 2, 428-439.	2.4	16
72	Size selectivity of fyke nets for European eel <i>Anguilla anguilla</i> . <i>Journal of Fish Biology</i> , 2009, 74, 2178-2186.	1.6	27

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73	On Volterra and D'Ancona's footsteps: The temporal and spatial complexity of ecological interactions and networks. <i>Italian Journal of Zoology</i> , 2009, 76, 3-15.	0.6	10
74	Body-size scaling in an SEI model of wildlife diseases. <i>Theoretical Population Biology</i> , 2008, 73, 374-382.	1.1	20
75	Movement Strategies of Seed Predators as Determinants of Plant Recruitment Patterns. <i>American Naturalist</i> , 2008, 172, 694-711.	2.1	22
76	Allometric Scaling and Seasonality in the Epidemics of Wildlife Diseases. <i>American Naturalist</i> , 2008, 172, 818-828.	2.1	31
77	On the space-time evolution of a cholera epidemic. <i>Water Resources Research</i> , 2008, 44, .	4.2	111
78	Local resource competition and the skewness of the sex ratio: a demographic model. <i>Mathematical Biosciences and Engineering</i> , 2008, 5, 813-830.	1.9	4
79	Multi-objective assessment of conservation measures for the European eel ( <i>Anguilla anguilla</i> ): an application to the Camargue lagoons. <i>ICES Journal of Marine Science</i> , 2007, 64, 1483-1490.	2.5	44
80	River networks and ecological corridors: Reactive transport on fractals, migration fronts, hydrochory. <i>Water Resources Research</i> , 2007, 43, .	4.2	46
81	Structural risk minimization: a robust method for density-dependence detection and model selection. <i>Ecography</i> , 2007, 30, 400-416.	4.5	25
82	Modelling the local dynamics of the zebra mussel ( <i>Dreissena polymorpha</i> ). <i>Freshwater Biology</i> , 2007, 52, 1223-1238.	2.4	41
83	Sex differentiation of the European eel in brackish and freshwater environments: a comparative analysis. <i>Journal of Fish Biology</i> , 2006, 69, 1228-1235.	1.6	52
84	Timing and rate of sexual maturation of European eel in brackish and freshwater environments. <i>Journal of Fish Biology</i> , 2006, 69, 200-208.	1.6	42
85	Age and growth of <i>Anguilla anguilla</i> in the Camargue lagoons. <i>Journal of Fish Biology</i> , 2006, 68, 876-890.	1.6	63
86	VC-dimension and structural risk minimization for the analysis of nonlinear ecological models. <i>Applied Mathematics and Computation</i> , 2006, 176, 166-176.	2.2	9
87	The intermediate dispersal principle in spatially explicit metapopulations. <i>Journal of Theoretical Biology</i> , 2006, 239, 22-32.	1.7	23
88	Model selection in demographic time series using VC-bounds. <i>Ecological Modelling</i> , 2006, 191, 186-195.	2.5	5
89	A stochastic bioeconomic model for the management of clam farming. <i>Ecological Modelling</i> , 2005, 184, 163-174.	2.5	38
90	The decline of the grey partridge in Europe: comparing demographics in traditional and modern agricultural landscapes. <i>Ecological Modelling</i> , 2004, 177, 313-335.	2.5	30

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91	Density and temperature-dependence of vital rates in the Manila clam <i>Tapes philippinarum</i> : a stochastic demographic model. <i>Marine Ecology - Progress Series</i> , 2004, 272, 153-164.	1.9	35
92	Is the rock partridge <i>Alectoris graeca saxatilis</i> threatened in the Dolomitic Alps?. <i>Animal Conservation</i> , 2003, 6, 71-81.	2.9	6
93	Assessing the Potential Impact of Clam Rearing in Dystrophic Lagoons: An Integrated Oxygen Balance. <i>Chemistry and Ecology</i> , 2003, 19, 129-146.	1.6	20
94	Assessing The Potential Impact Of Clam Rearing In Dystrophic Lagoons: An Integrated Oxygen Balance. <i>Chemistry and Ecology</i> , 2003, 19, 129-146.	1.6	11
95	A Persistence Criterion for Metapopulations. <i>Theoretical Population Biology</i> , 2002, 61, 115-125.	1.1	39
96	Habitat Destruction, Environmental Catastrophes, and Metapopulation Extinction. <i>Theoretical Population Biology</i> , 2002, 61, 127-140.	1.1	45
97	Estimating Daily Egg Production of European Anchovy in the Adriatic Sea: A Critical Appraisal. <i>Marine Ecology</i> , 2002, 23, 272-279.	1.1	2
98	The Kyoto Protocol Is Cost-effective. <i>Ecology and Society</i> , 2002, 6, .	0.9	0
99	A STOCHASTIC BIOECONOMIC ANALYSIS OF SILVER EEL FISHERIES. , 2001, 11, 281-294.		19
100	The economic benefits of the Kyoto Protocol. <i>Nature</i> , 2001, 413, 478-479.	27.8	30
101	Response from Gatto and De Leo:. <i>BioScience</i> , 2001, 51, 271.	4.9	1
102	Quantifying the Dynamics of Prion Infection: a Bifurcation Analysis of Laurent's Model. <i>Journal of Theoretical Biology</i> , 2000, 205, 283-296.	1.7	7
103	VVF: integrating modelling and GIS in a software tool for habitat suitability assessment. <i>Environmental Modelling and Software</i> , 2000, 15, 1-12.	4.5	52
104	Pricing Biodiversity and Ecosystem Services: The Never-Ending Story. <i>BioScience</i> , 2000, 50, 347.	4.9	59
105	A mesoscale approach to extinction risk in fragmented habitats. <i>Nature</i> , 1999, 400, 560-562.	27.8	82
106	Spotlight needed on Italian policy. <i>Nature</i> , 1998, 391, 12-12.	27.8	2
107	Region-based citation bias in science. <i>Nature</i> , 1998, 396, 210-210.	27.8	41
108	Interspecific competition among macroparasites in a density-dependent host population. <i>Journal of Mathematical Biology</i> , 1998, 37, 467-490.	1.9	18

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109	Acidic Deposition, Plant Pests, and the Fate of Forest Ecosystems. <i>Theoretical Population Biology</i> , 1998, 54, 257-269.	1.1	13
110	Delayed and inverse density dependence in a chamois population of the Italian Alps. <i>Ecography</i> , 1997, 20, 37-47.	4.5	14
111	Optimal life strategies in organisms exposed to recurrent critical events. <i>Journal of Optimization Theory and Applications</i> , 1996, 90, 79-94.	1.5	1
112	Lyapunov Exponents and the Mathematics of Invasion in Oscillatory or Chaotic Populations. <i>Theoretical Population Biology</i> , 1995, 48, 126-171.	1.1	142
113	The Interaction between Soil Acidity and Forest Dynamics: A Simple-Model Exhibiting Catastrophic Behavior. <i>Theoretical Population Biology</i> , 1993, 43, 31-51.	1.1	13
114	The Evolutionary Optimality of Oscillatory and Chaotic Dynamics in Simple Population Models. <i>Theoretical Population Biology</i> , 1993, 43, 310-336.	1.1	47
115	Taxing overexploited open-access fisheries: the role of demand elasticity. <i>Ecological Modelling</i> , 1992, 60, 185-198.	2.5	3
116	Assessing the response of demographic parameters to density in a rotifer population. <i>Ecological Modelling</i> , 1992, 62, 209-232.	2.5	4
117	Optimal diffusion of a new technology when both demand and supply are nonstatic. <i>Journal of Optimization Theory and Applications</i> , 1992, 73, 75-87.	1.5	2
118	Some Remarks on Models of Plankton Densities in Lakes. <i>American Naturalist</i> , 1991, 137, 264-267.	2.1	50
119	The optimal reclamation of eutrophic water bodies. <i>Applied Mathematics and Computation</i> , 1991, 43, 105-115.	2.2	1
120	Optimal investment in the reclamation of eutrophic water bodies. <i>Journal of Optimization Theory and Applications</i> , 1991, 71, 389-398.	1.5	1
121	A review of some physiological and evolutionary aspects of body size and bud size of Hydra. <i>Hydrobiologia</i> , 1991, 216-217, 377-382.	2.0	9
122	A review of some physiological and evolutionary aspects of body size and bud size of Hydra. , 1991, , 377-382.		0
123	A general minimum principle for competing populations: Some ecological and evolutionary consequences. <i>Theoretical Population Biology</i> , 1990, 37, 369-388.	1.1	15
124	Physiological profiles and demographic rates in relation to food quantity and predictability: An optimization approach. <i>Evolutionary Ecology</i> , 1989, 3, 1-30.	1.2	12
125	A report on some recent experiences in developing environmental software. <i>Ecological Modelling</i> , 1989, 47, 19-32.	2.5	0
126	On the optimality of the logistic growth. <i>Journal of Optimization Theory and Applications</i> , 1988, 57, 513-517.	1.5	9



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127	A functional interpretation of the logistic equation. <i>Ecological Modelling</i> , 1988, 42, 155-159.	2.5	23
128	Some models of catastrophic behavior in exploited forests. <i>Plant Ecology</i> , 1987, 69, 213-222.	1.2	30
129	Does K-selection imply prudent predation?. <i>Theoretical Population Biology</i> , 1984, 25, 347-363.	1.1	30
130	Optimal allocation of vessels along a fish migration path. <i>Ecological Modelling</i> , 1982, 14, 229-250.	2.5	2
131	Some problems of effort allocation on two non-interacting fish stocks. <i>Ecological Modelling</i> , 1982, 14, 193-211.	2.5	1
132	Comments on "Macarthur's Minimization Principle: A Footnote". <i>American Naturalist</i> , 1982, 119, 140-144.	2.1	3
133	Some remarks on periodic harvesting of a fish population. <i>Mathematical Biosciences</i> , 1981, 56, 47-69.	1.9	14
134	A method for the real time forecast of the outflow from a lake. <i>Applied Mathematical Modelling</i> , 1980, 4, 322-324.	4.2	2
135	On the determination of a commercial fishery production model. <i>Ecological Modelling</i> , 1980, 8, 165-172.	2.5	2
136	Estimating escapements of anadromous fishes via upstream test fishing data. <i>Ecological Modelling</i> , 1980, 8, 173-188.	2.5	1
137	The competitive coexistence of two species in periodically varying environments. <i>Bollettino Di Zoologia</i> , 1979, 46, 191-200.	0.3	1
138	The regulator theory for finite automata. <i>Information and Control</i> , 1976, 31, 1-16.	1.1	15
139	A predator-prey model for discrete-time commercial fisheries. <i>Applied Mathematical Modelling</i> , 1976, 1, 67-76.	4.2	2
140	Pseudoequilibrium in dynamical systems. <i>International Journal of Systems Science</i> , 1973, 4, 809-824.	5.5	9