Roberto Rosa

List of Publications by Year
in descending order

84 papers	2,519 citations	159358 30 h-index	233125 45 g-index
86 all docs	86 docs citations	86 times ranked	2967 citing authors

#	Article	IF	Citations
1	Forest Structure and Roe Deer Abundance Predict Tick-Borne Encephalitis Risk in Italy. PLoS ONE, 2009, 4, e4336.	1.1	133
2	Effects of tick population dynamics and host densities on the persistence of tick-borne infections. Mathematical Biosciences, 2007, 208, 216-240.	0.9	107
3	Effects of Temperature and Rainfall on the Activity and Dynamics of Host-Seeking<i>Aedes albopictus</i>Females in Northern Italy. Vector-Borne and Zoonotic Diseases, 2010, 10, 811-816.	0.6	97
4	Understanding West Nile virus ecology in Europe: Culex pipiens host feeding preference in a hotspot of virus emergence. Parasites and Vectors, 2015, 8, 213.	1.0	95
5	Thresholds for disease persistence in models for tick-borne infections including non-viraemic transmission, extended feeding and tick aggregation. Journal of Theoretical Biology, 2003, 224, 359-376.	0.8	92
6	Saturation deficit and deer density affect questing activity and local abundance of Ixodes ricinus (Acari, Ixodidae) in Italy. Veterinary Parasitology, 2011, 183, 114-124.	0.7	89
7	Identifying the Environmental Conditions Favouring West Nile Virus Outbreaks in Europe. PLoS ONE, 2015, 10, e0121158.	1.1	82
8	Spatial and Temporal Hot Spots of Aedes albopictus Abundance inside and outside a South European Metropolitan Area. PLoS Neglected Tropical Diseases, 2016, 10, e0004758.	1.3	63
9	Early warning of West Nile virus mosquito vector: climate and land use models successfully explain phenology and abundance of Culex pipiens mosquitoes in north-western Italy. Parasites and Vectors, 2014, 7, 269.	1.0	62
10	Tick-borne encephalitis virus in northern Italy: molecular analysis, relationships with density and seasonal dynamics of Ixodes ricinus. Medical and Veterinary Entomology, 2001, 15, 304-313.	0.7	56
11	Effects of deer density on tick infestation of rodents and the hazard of tick-borne encephalitis. I: Empirical assessment. International Journal for Parasitology, 2012, 42, 365-372.	1.3	53
12	West Nile Virus Circulation Detected in Northern Italy in Sentinel Chickens. Vector-Borne and Zoonotic Diseases, 2007, 7, 411-417.	0.6	51
13	Effect of deer density on tick infestation of rodents and the hazard of tick-borne encephalitis. II: Population and infection models. International Journal for Parasitology, 2012, 42, 373-381.	1.3	51
14	Blood meal analysis, flavivirus screening, and influence of meteorological variables on the dynamics of potential mosquito vectors of West Nile virus in northern Italy. Journal of Vector Ecology, 2012, 37, 20-28.	0.5	51
15	The Role of Climatic and Density Dependent Factors in Shaping Mosquito Population Dynamics: The Case of Culex pipiens in Northwestern Italy. PLoS ONE, 2016, 11, e0154018.	1.1	48
16	Aggregation, Stability, and Oscillations in Different Models for Host-Macroparasite Interactions. Theoretical Population Biology, 2002, 61, 319-334.	0.5	46
17	Temporal Variation of <i>Ixodes ricinus</i> Intensity on the Rodent Host <i>Apodemus flavicollis</i> in Relation to Local Climate and Host Dynamics. Vector-Borne and Zoonotic Diseases, 2007, 7, 285-295.	0.6	44
18	Transmission dynamics of the ongoing chikungunya outbreak in Central Italy: from coastal areas to the metropolitan city of Rome, summer 2017. Eurosurveillance, 2017, 22, .	3.9	44

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19	Parasites and wildlife in a changing world: The vector-host- pathogen interaction as a learning case. International Journal for Parasitology: Parasites and Wildlife, 2019, 9, 394-401.	0.6	40
20	The effect of interspecific competition on the temporal dynamics of Aedes albopictus and Culex pipiens. Parasites and Vectors, 2017, 10, 102.	1.0	39
21	Assessing the potential risk of Zika virus epidemics in temperate areas with established Aedes albopictus populations. Eurosurveillance, 2016, 21, .	3.9	39
22	Quantifying the spatial spread of dengue in a non-endemic Brazilian metropolis via transmission chain reconstruction. Nature Communications, 2018, 9, 2837.	5.8	38
23	Analysis of a model for macroparasitic infection with variable aggregation and clumped infections. Journal of Mathematical Biology, 1998, 36, 419-447.	0.8	37
24	Effect of host populations on the intensity of ticks and the prevalence of tick-borne pathogens: how to interpret the results of deer exclosure experiments. Parasitology, 2008, 135, 1531-1544.	0.7	37
25	A quantitative comparison of West Nile virus incidence from 2013 to 2018 in Emilia-Romagna, Italy. PLoS Neglected Tropical Diseases, 2020, 14, e0007953.	1.3	35
26	Early detection of tick-borne encephalitis virus spatial distribution and activity in the province of Trento, northern Italy. Geospatial Health, 2007, 1, 169.	0.3	34
27	The role of sex in parasite dynamics: Model simulations on transmission of Heligmosomoides polygyrus in populations of yellow-necked mice, Apodemus flavicollis. International Journal for Parasitology, 2007, 37, 341-349.	1.3	34
28	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.	1.3	34
29	Tick-borne pathogens and their reservoir hosts in northern Italy. Ticks and Tick-borne Diseases, 2018, 9, 164-170.	1.1	34
30	From eggs to bites: do ovitrap data provide reliable estimates of<i>Aedes albopictus</i>biting females?. PeerJ, 2017, 5, e2998.	0.9	32
31	Epidemiology of West Nile virus in Africa: An underestimated threat. PLoS Neglected Tropical Diseases, 2022, 16, e0010075.	1.3	32
32	Modelling the spatial spread of H7N1 avian influenza virus among poultry farms in Italy. Epidemics, 2010, 2, 29-35.	1.5	30
33	West Nile virus transmission and human infection risk in Veneto (Italy): a modelling analysis. Scientific Reports, 2018, 8, 14005.	1.6	30
34	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.	1.3	30
35	Effect of Climate and Land Use on the Spatio-Temporal Variability of Tick-Borne Bacteria in Europe. International Journal of Environmental Research and Public Health, 2018, 15, 732.	1.2	29
36	Spatial and Temporal Dynamics of Lymphocytic Choriomeningitis Virus in Wild Rodents, Northern Italy. Emerging Infectious Diseases, 2009, 15, 1019-1025.	2.0	29

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37	Individual-based vs. deterministic models for macroparasites: host cycles and extinction. Theoretical Population Biology, 2003, 63, 295-307.	0.5	28
38	Prevalence of Borrelia burgdorferi s.l. and Anaplasma phagocytophilum in the wood tick Ixodes ricinus in the Province of Trento, Italy. European Journal of Clinical Microbiology and Infectious Diseases, 2006, 25, 737-739.	1.3	28
39	Spring temperature shapes West Nile virus transmission in Europe. Acta Tropica, 2021, 215, 105796.	0.9	26
40	Wide detection of Aedes flavivirus in north-eastern Italy â€" a European hotspot of emerging mosquito-borne diseases. Journal of General Virology, 2015, 96, 420-430.	1.3	24
41	Enhancement of Aedes albopictus collections by ovitrap and sticky adult trap. Parasites and Vectors, 2016, 9, 223.	1.0	23
42	Relative density of host-seeking ticks in different habitat types of south-western Slovakia. Experimental and Applied Acarology, 2016, 69, 205-224.	0.7	23
43	New adhesive traps to monitor urban mosquitoes with a case study to assess the efficacy of insecticide control strategies in temperate areas. Parasites and Vectors, 2015, 8, 134.	1.0	22
44	An integrated pest control strategy against the Asian tiger mosquito in northern Italy: a case study. Pest Management Science, 2017, 73, 87-93.	1.7	21
45	Spatial and Temporal Dynamics of Lymphocytic Choriomeningitis Virus in Wild Rodents, Northern Italy. Emerging Infectious Diseases, 2009, 15, 1019-1025.	2.0	21
46	Anticipating species distributions: Handling sampling effort bias under a Bayesian framework. Science of the Total Environment, 2017, 584-585, 282-290.	3.9	20
47	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.	1.0	20
48	Effect of sexual segregation on hostâ€"parasite interaction: Model simulation for abomasal parasite dynamics in alpine ibex (Capra ibex). International Journal for Parasitology, 2010, 40, 1285-1293.	1.3	19
49	Weak Larval Competition Between Two Invasive Mosquitoes Aedes koreicus and Aedes albopictus (Diptera: Culicidae). Journal of Medical Entomology, 2017, 54, 1266-1272.	0.9	19
50	Estimating Spatio-Temporal Dynamics of Aedes Albopictus Dispersal to Guide Control Interventions in Case of Exotic Arboviruses in Temperate Regions. Scientific Reports, 2019, 9, 10281.	1.6	19
51	Pattern of Tick Aggregation on Mice: Larger Than Expected Distribution Tail Enhances the Spread of Tick-Borne Pathogens. PLoS Computational Biology, 2014, 10, e1003931.	1.5	17
52	Exploring vector-borne infection ecology in multi-host communities: A case study of West Nile virus. Journal of Theoretical Biology, 2017, 415, 58-69.	0.8	17
53	Mapping of Aedes albopictus Abundance at a Local Scale in Italy. Remote Sensing, 2017, 9, 749.	1.8	17
54	Estimating the risk of Dengue, Chikungunya and Zika outbreaks in a large European city. Scientific Reports, 2018, 8, 16435.	1.6	17

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55	Influence of Temperature on the Life-Cycle Dynamics of Aedes albopictus Population Established at Temperate Latitudes: A Laboratory Experiment. Insects, 2020, 11, 808.	1.0	17
56	Spatial modes for transmission of chikungunya virus during a large chikungunya outbreak in Italy: a modeling analysis. BMC Medicine, 2020, 18, 226.	2.3	17
57	First outbreak of Zika virus in the continental United States: a modelling analysis. Eurosurveillance, 2017, 22, .	3.9	17
58	Changes in host densities and co-feeding pattern efficiently predict tick-borne encephalitis hazard in an endemic focus in northern Italy. International Journal for Parasitology, 2019, 49, 779-787.	1.3	16
59	Effectiveness of Ultra-Low Volume insecticide spraying to prevent dengue in a non-endemic metropolitan area of Brazil. PLoS Computational Biology, 2019, 15, e1006831.	1.5	16
60	Identification of Ixodes ricinus blood meals using an automated protocol with high resolution melting analysis (HRMA) reveals the importance of domestic dogs as larval tick hosts in Italian alpine forests. Parasites and Vectors, 2016, 9, 638.	1.0	14
61	West Nile Virus Lineage 1 in Italy: Newly Introduced or a Re-Occurrence of a Previously Circulating Strain?. Viruses, 2022, 14, 64.	1.5	14
62	Emerging Rodent-Borne Viral Zoonoses in Trento, Italy. EcoHealth, 2018, 15, 695-704.	0.9	13
63	Dynamics, co-infections and characteristics of zoonotic tick-borne pathogens in Hokkaido small mammals, Japan. Ticks and Tick-borne Diseases, 2016, 7, 922-928.	1.1	12
64	Not in my backyard: effectiveness of outdoor residual spraying from hand-held sprayers against the mosquito<i>Aedes albopictus</i>in Rome, Italy. Pest Management Science, 2017, 73, 138-145.	1.7	12
65	Ecology, environment and evolutionary history influence genetic structure in five mammal species from the Italian Alps. Biological Journal of the Linnean Society, 2016, 117, 428-446.	0.7	10
66	The containment of potential outbreaks triggered by imported Chikungunya cases in Italy: a cost utility epidemiological assessment of vector control measures. Scientific Reports, 2018, 8, 9034.	1.6	10
67	Applying the Nâ€mixture model approach to estimate mosquito population absolute abundance from monitoring data. Journal of Applied Ecology, 2019, 56, 2225-2235.	1.9	10
68	Assessment of the Effectiveness of a Seasonal-Long Insecticide-Based Control Strategy against Aedes albopictus Nuisance in an Urban Area. PLoS Neglected Tropical Diseases, 2016, 10, e0004463.	1.3	9
69	Models for host-macroparasite interactions in micromammals. , 2006, , 319-348.		8
70	Effect of <i>Ascaridia compar</i> infection on rock partridge population dynamics: empirical and theoretical investigations. Oikos, 2011, 120, 1557-1567.	1.2	8
71	The role of heterogeneity on the invasion probability of mosquito-borne diseases in multi-host models. Journal of Theoretical Biology, 2015, 377, 25-35.	0.8	8
72	Recent increase in prevalence of antibodies to Dobrava-Belgrade virus (DOBV) in yellow-necked mice in northern Italy. Epidemiology and Infection, 2015, 143, 2241-2244.	1.0	5

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73	DISTRIBUTION AND SEASONAL VARIATION OF LJUNGAN VIRUS IN BANK VOLES (MYODES GLAREOLUS) IN FENNOSCANDIA. Journal of Wildlife Diseases, 2017, 53, 552.	0.3	5
74	Identifying Favorable Spatio-Temporal Conditions for West Nile Virus Outbreaks by Co-Clustering of Modis LST Indices Time Series. , 2018, , .		5
75	Loss of protozoan and metazoan intestinal symbiont biodiversity in wild primates living in unprotected forests. Scientific Reports, 2020, 10, 10917.	1.6	5
76	Geographical Distribution of Ljungan Virus in Small Mammals in Europe. Vector-Borne and Zoonotic Diseases, 2020, 20, 692-702.	0.6	5
77	Exclusion and spatial segregation in the apparent competition between two hosts sharing macroparasites. Theoretical Population Biology, 2013, 86, 12-22.	0.5	4
78	Entomological Survey Confirms Changes in Mosquito Composition and Abundance in Senegal and Reveals Discrepancies among Results by Different Host-Seeking Female Traps. Insects, 2021, 12, 692.	1.0	4
79	CAN RECONSTRUCTED LAND SURFACE TEMPERATURE DATA FROM SPACE PREDICT A WEST NILE VIRUS OUTBREAK?. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W2, 19-26.	0.2	4
80	Assessing the risk of autochthonous yellow fever transmission in Lazio, central Italy. PLoS Neglected Tropical Diseases, 2019, 13, e0006970.	1.3	3
81	A 2-DIMENSIONAL MODEL FOR MACROPARASITIC INFECTIONS IN A HOST WITH LOGISTIC GROWTH. Journal of Biological Systems, 1995, 03, 833-849.	0.5	2
82	Modelling arthropod active dispersal using Partial differential equations: the case of the mosquito Aedes albopictus. Ecological Modelling, 2021, 456, 109658.	1.2	2
83	Aedes albopictus bionomics data collection by citizen participation on Procida Island, a promising Mediterranean site for the assessment of innovative and community-based integrated pest management methods. PLoS Neglected Tropical Diseases, 2021, 15, e0009698.	1.3	2
84	Evaluation of <i>Bacillus thuringiensis</i> Subsp. <i>Israelensis</i> and <i>Bacillus sphaericus</i> Combination Against <i>Culex pipiens</i> in Highly Vegetated Ditches. Journal of the American Mosquito Control Association, 2022, 38, 40-45.	0.2	2