

# Daniel T Haydon

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

4,491  
citations

172457

29  
h-index

118850

62  
g-index

63  
all docs

63  
docs citations

63  
times ranked

6233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rabies shows how scale of transmission can enable acute infections to persist at low prevalence. <i>Science</i> , 2022, 376, 512-516.	12.6	17
2	Integration of markâ€recapture and acoustic detections for unbiased population estimation in animal communities. <i>Ecology</i> , 2022, 103, .	3.2	4
3	Molecular detection of <i>Coxiella burnetii</i> infection in small mammals from Moshi Rural and Urban Districts, northern Tanzania. <i>Veterinary Medicine and Science</i> , 2021, 7, 960-967.	1.6	3
4	Reservoir dynamics of rabies in southâ€east Tanzania and the roles of crossâ€species transmission and domestic dog vaccination. <i>Journal of Applied Ecology</i> , 2021, 58, 2673-2685.	4.0	10
5	Latent class evaluation of the performance of serological tests for exposure to <i>Brucella</i> spp. in cattle, sheep, and goats in Tanzania. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009630.	3.0	7
6	Persistent pathogens and wildlife reservoirs. <i>Science</i> , 2021, 374, 35-36.	12.6	3
7	Estimating viral bottleneck sizes for FMDV transmission within and between hosts and implications for the rate of viral evolution. <i>Interface Focus</i> , 2020, 10, 20190066.	3.0	16
8	Tracking animal movements using biomarkers in tail hairs: a novel approach for animal geolocating from sulfur isoscapes. <i>Movement Ecology</i> , 2020, 8, 37.	2.8	13
9	Farm-Level Risk Factors of Increased Abortion and Mortality in Domestic Ruminants during the 2010 Rift Valley Fever Outbreak in Central South Africa. <i>Pathogens</i> , 2020, 9, 914.	2.8	2
10	Towards the elimination of dog-mediated rabies: development and application of an evidence-based management tool. <i>BMC Infectious Diseases</i> , 2020, 20, 778.	2.9	9
11	Socially vs. Privately Optimal Control of Livestock Diseases: A Case for Integration of Epidemiology and Economics. <i>Frontiers in Veterinary Science</i> , 2020, 7, 558409.	2.2	6
12	One Health in Practice: Using Integrated Bite Case Management to Increase Detection of Rabid Animals in Tanzania. <i>Frontiers in Public Health</i> , 2020, 8, 13.	2.7	35
13	Prevalence and speciation of brucellosis in febrile patients from a pastoralist community of Tanzania. <i>Scientific Reports</i> , 2020, 10, 7081.	3.3	30
14	Molecular detection and genetic characterization of <i>Bartonella</i> species from rodents and their associated ectoparasites from northern Tanzania. <i>PLoS ONE</i> , 2019, 14, e0223667.	2.5	24
15	Low topotype diversity of recent foot-and-mouth disease virus serotypes O and A from districts located along the Uganda and Tanzania border. <i>Journal of Veterinary Science</i> , 2019, 20, e4.	1.3	4
16	Transmission ecology of canine parvovirus in a multi-host, multi-pathogen system. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182772.	2.6	26
17	Venezuela's humanitarian crisis, resurgence of vector-borne diseases, and implications for spillover in the region. <i>Lancet Infectious Diseases</i> , The, 2019, 19, e149-e161.	9.1	138
18	Deep Sequencing of Foot-and-Mouth Disease Virus Reveals RNA Sequences Involved in Genome Packaging. <i>Journal of Virology</i> , 2018, 92, .	3.4	19

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19	A method for the direct detection of airborne dispersal in lichens. <i>Molecular Ecology Resources</i> , 2018, 18, 240-250.	4.8	8
20	The impact of passive case detection on the transmission dynamics of gambiense Human African Trypanosomiasis. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006276.	3.0	7
21	Waves of endemic foot-and-mouth disease in eastern Africa suggest feasibility of proactive vaccination approaches. <i>Nature Ecology and Evolution</i> , 2018, 2, 1449-1457.	7.8	66
22	Driving improvements in emerging disease surveillance through locally relevant capacity strengthening. <i>Science</i> , 2017, 357, 146-148.	12.6	60
23	One Health Research in Northern Tanzania – Challenges and Progress. <i>The East African Health Research Journal</i> , 2017, 1, 8-18.	0.4	11
24	Integrating serological and genetic data to quantify cross-species transmission: brucellosis as a case study. <i>Parasitology</i> , 2016, 143, 821-834.	1.5	24
25	Investigating intra-host and intra-herd sequence diversity of foot-and-mouth disease virus. <i>Infection, Genetics and Evolution</i> , 2016, 44, 286-292.	2.3	17
26	Efficient generation of vesicular stomatitis virus (VSV)-pseudotypes bearing morbilliviral glycoproteins and their use in quantifying virus neutralising antibodies. <i>Vaccine</i> , 2016, 34, 814-822.	3.8	25
27	Mobile Phones As Surveillance Tools: Implementing and Evaluating a Large-Scale Intersectoral Surveillance System for Rabies in Tanzania. <i>PLoS Medicine</i> , 2016, 13, e1002002.	8.4	85
28	Identification of Low- and High-Impact Hemagglutinin Amino Acid Substitutions That Drive Antigenic Drift of Influenza A(H1N1) Viruses. <i>PLoS Pathogens</i> , 2016, 12, e1005526.	4.7	58
29	Heterogeneity in the spread and control of infectious disease: consequences for the elimination of canine rabies. <i>Scientific Reports</i> , 2015, 5, 18232.	3.3	45
30	Conservation and economic benefits of a road around the Serengeti. <i>Conservation Biology</i> , 2015, 29, 932-936.	4.7	17
31	Updated estimate of the duration of the meningo-encephalitic stage in gambiense human African trypanosomiasis. <i>BMC Research Notes</i> , 2015, 8, 292.	1.4	22
32	Prediction and characterization of novel epitopes of serotype A foot-and-mouth disease viruses circulating in East Africa using site-directed mutagenesis. <i>Journal of General Virology</i> , 2015, 96, 1033-1041.	2.9	19
33	Establishing the link between habitat selection and animal population dynamics. <i>Ecological Monographs</i> , 2015, 85, 413-436.	5.4	111
34	Dynamics of a morbillivirus at the domestic-wildlife interface: Canine distemper virus in domestic dogs and lions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1464-1469.	7.1	128
35	The impact of within-herd genetic variation upon inferred transmission trees for foot-and-mouth disease virus. <i>Infection, Genetics and Evolution</i> , 2015, 32, 440-448.	2.3	14
36	Distinguishing low frequency mutations from RT-PCR and sequence errors in viral deep sequencing data. <i>BMC Genomics</i> , 2015, 16, 229.	2.8	44

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37	Competition, predation, and migration: individual choice patterns of Serengeti migrants captured by hierarchical models. <i>Ecological Monographs</i> , 2014, 84, 355-372.	5.4	87
38	Genetic and antigenic characterisation of serotype A FMD viruses from East Africa to select new vaccine strains. <i>Vaccine</i> , 2014, 32, 5794-5800.	3.8	39
39	Supersize me: how whole-genome sequencing and big data are transforming epidemiology. <i>Trends in Microbiology</i> , 2014, 22, 282-291.	7.7	115
40	Assembling evidence for identifying reservoirs of infection. <i>Trends in Ecology and Evolution</i> , 2014, 29, 270-279.	8.7	209
41	Revisiting the diffusion approximation to estimate evolutionary rates of gene family diversification. <i>Journal of Theoretical Biology</i> , 2014, 341, 111-122.	1.7	1
42	Evolution of foot-and-mouth disease virus intra-sample sequence diversity during serial transmission in bovine hosts. <i>Veterinary Research</i> , 2013, 44, 12.	3.0	56
43	Surveillance guidelines for disease elimination: A case study of canine rabies. <i>Comparative Immunology, Microbiology and Infectious Diseases</i> , 2013, 36, 249-261.	1.6	87
44	Designing Programs for Eliminating Canine Rabies from Islands: Bali, Indonesia as a Case Study. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2372.	3.0	128
45	Observing micro-evolutionary processes of viral populations at multiple scales. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120203.	4.0	29
46	A Bayesian Inference Framework to Reconstruct Transmission Trees Using Epidemiological and Genetic Data. <i>PLoS Computational Biology</i> , 2012, 8, e1002768.	3.2	104
47	Limits to exploitation: dynamic food web models predict the impact of livestock grazing on Ethiopian wolves <i>Canis simensis</i> and their prey. <i>Journal of Applied Ecology</i> , 2011, 48, 340-347.	4.0	12
48	An analysis of long-term trends in the abundance of domestic livestock and free-roaming dogs in the Bale Mountains National Park, Ethiopia. <i>African Journal of Ecology</i> , 2011, 49, 91-102.	0.9	15
49	Metapopulation dynamics of rabies and the efficacy of vaccination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2182-2190.	2.6	47
50	Response of endemic afroalpine rodents to the removal of livestock grazing pressure. <i>Environmental Epigenetics</i> , 2011, 57, 741-750.	1.8	14
51	Beyond the Consensus: Dissecting Within-Host Viral Population Diversity of Foot-and-Mouth Disease Virus by Using Next-Generation Genome Sequencing. <i>Journal of Virology</i> , 2011, 85, 2266-2275.	3.4	127
52	Culling wildlife hosts to control disease: mountain hares, red grouse and louping ill virus. <i>Journal of Applied Ecology</i> , 2010, 47, 926-930.	4.0	45
53	Transmission Dynamics and Prospects for the Elimination of Canine Rabies. <i>PLoS Biology</i> , 2009, 7, e1000053.	5.6	374
54	Exploring reservoir dynamics: a case study of rabies in the Serengeti ecosystem. <i>Journal of Applied Ecology</i> , 2008, 45, 1246-1257.	4.0	166

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55	Transmission Pathways of Foot-and-Mouth Disease Virus in the United Kingdom in 2007. PLoS Pathogens, 2008, 4, e1000050.	4.7	178
56	Emerging pathogens: the epidemiology and evolution of species jumps. Trends in Ecology and Evolution, 2005, 20, 238-244.	8.7	597
57	The shape of red grouse cycles. Journal of Animal Ecology, 2004, 73, 767-776.	2.8	21
58	Analysing noisy time-series: describing regional variation in the cyclic dynamics of red grouse. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1609-1617.	2.6	41
59	Identifying Reservoirs of Infection: A Conceptual and Practical Challenge. Emerging Infectious Diseases, 2002, 8, 1468-1473.	4.3	630
60	Serial passage of foot-and-mouth disease virus in sheep reveals declining levels of viraemia over time. Journal of General Virology, 2002, 83, 1907-1914.	2.9	33
61	Effect of fire on northern bettong ( <i>Bettongia tropica</i> ) foraging behaviour. Austral Ecology, 2001, 26, 649-659.	1.5	39
62	Evidence for Positive Selection in Foot-and-Mouth Disease Virus Capsid Genes From Field Isolates. Genetics, 2001, 157, 7-15.	2.9	126
63	Sperm-limited fecundity and polyandry-induced mortality in female nematodes <i>Caenorhabditis remanei</i> . Biological Journal of the Linnean Society, 0, 99, 362-369.	1.6	44