Heather M Ferguson

List of Publications by Year
in descending order

69 papers	2,876 citations	236833 25 h-index	197736 49 g-index
82 all docs	82 docs citations	82 times ranked	2938 citing authors

#	Article	IF	Citations
1	Ecology: A Prerequisite for Malaria Elimination and Eradication. PLoS Medicine, 2010, 7, e1000303.	3.9	289
2	Why is the effect of malaria parasites on mosquito survival still unresolved?. Trends in Parasitology, 2002, 18, 256-261.	1.5	196
3	Ecological and evolutionary determinants of host species choice in mosquito vectors. Trends in Parasitology, 2009, 25, 189-196.	1.5	192
4	Knowledge, Attitudes and Practices (KAP) about Rabies Prevention and Control: A Community Survey in Tanzania. PLoS Neglected Tropical Diseases, 2014, 8, e3310.	1.3	142
5	Venezuela's humanitarian crisis, resurgence of vector-borne diseases, and implications for spillover in the region. Lancet Infectious Diseases, The, 2019, 19, e149-e161.	4.6	138
6	Non-destructive Determination of Age and Species of Anopheles gambiae s.l. Using Near-infrared Spectroscopy. American Journal of Tropical Medicine and Hygiene, 2009, 81, 622-630.	0.6	125
7	Why Use of Interventions Targeting Outdoor Biting Mosquitoes will be Necessary to Achieve Malaria Elimination. Frontiers in Physiology, 2012, 3, 199.	1.3	124
8	Establishment of a large semi-field system for experimental study of African malaria vector ecology and control in Tanzania. Malaria Journal, 2008, 7, 158.	0.8	100
9	Delayed mortality effects cut the malaria transmission potential of insecticide-resistant mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8975-8980.	3.3	89
10	Seasonal and Spatial Dynamics of the Primary Vector of Plasmodium knowlesi within a Major Transmission Focus in Sabah, Malaysia. PLoS Neglected Tropical Diseases, 2015, 9, e0004135.	1.3	82
11	The Genetic Basis of Host Preference and Resting Behavior in the Major African Malaria Vector, Anopheles arabiensis. PLoS Genetics, 2016, 12, e1006303.	1.5	76
12	The impact of livestock on the abundance, resting behaviour and sporozoite rate of malaria vectors in southern Tanzania. Malaria Journal, 2015, 14, 17.	0.8	74
13	Redressing the sex imbalance in knowledge of vector biology. Trends in Ecology and Evolution, 2005, 20, 202-209.	4.2	70
14	Effect of larval crowding on mating competitiveness of Anopheles gambiae mosquitoes. Malaria Journal, 2005, 4, 49.	0.8	61
15	Linking individual phenotype to density-dependent population growth: the influence of body size on the population dynamics of malaria vectors. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3142-3151.	1.2	60
16	Predictive analysis across spatial scales links zoonotic malaria to deforestation. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182351.	1.2	51
17	Investigating the Contribution of Peri-domestic Transmission to Risk of Zoonotic Malaria Infection in Humans. PLoS Neglected Tropical Diseases, 2016, 10, e0005064.	1.3	47
18	Local human movement patterns and land use impact exposure to zoonotic malaria in Malaysian Borneo. ELife, 2019, 8, .	2.8	43

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19	Development and evaluation of mosquito-electrocuting traps as alternatives to the human landing catch technique for sampling host-seeking malaria vectors. Malaria Journal, 2015, 14, 502.	0.8	40
20	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. Wellcome Open Research, 2019, 4, 76.	0.9	40
21	Variations in household microclimate affect outdoor-biting behaviour of malaria vectors. Wellcome Open Research, 2017, 2, 102.	0.9	39
22	Detection of Plasmodium falciparum infected Anopheles gambiae using near-infrared spectroscopy. Malaria Journal, 2019, 18, 85.	0.8	37
23	Detection of malaria parasites in dried human blood spots using mid-infrared spectroscopy and logistic regression analysis. Malaria Journal, 2019, 18, 341.	0.8	36
24	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. Wellcome Open Research, 2019, 4, 76.	0.9	36
25	An improved mosquito electrocuting trap that safely reproduces epidemiologically relevant metrics of mosquito human-feeding behaviours as determined by human landing catch. Malaria Journal, 2016, 15, 465.	0.8	34
26	Diversity, Differentiation, and Linkage Disequilibrium: Prospects for Association Mapping in the Malaria VectorAnopheles arabiensis. G3: Genes, Genomes, Genetics, 2014, 4, 121-131.	0.8	33
27	First report of natural Wolbachia infection in the malaria mosquito Anopheles arabiensis in Tanzania. Parasites and Vectors, 2018, 11, 635.	1.0	32
28	The impact of host species and vector control measures on the fitness of African malaria vectors. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122823.	1.2	28
29	Using mid-infrared spectroscopy and supervised machine-learning to identify vertebrate blood meals in the malaria vector, Anopheles arabiensis. Malaria Journal, 2019, 18, 187.	0.8	28
30	Rapid age-grading and species identification of natural mosquitoes for malaria surveillance. Nature Communications, 2022, 13, 1501.	5.8	28
31	The Sticky Resting Box, a new tool for studying resting behaviour of Afrotropical malaria vectors. Parasites and Vectors, 2014, 7, 247.	1.0	27
32	Establishment of a self-propagating population of the African malaria vector Anopheles arabiensis under semi-field conditions. Malaria Journal, 2010, 9, 356.	0.8	26
33	Mosquito electrocuting traps for directly measuring biting rates and host-preferences of Anopheles arabiensis and Anopheles funestus outdoors. Malaria Journal, 2019, 18, 83.	0.8	25
34	Determinants of the population growth of the West Nile virus mosquito vector Culex pipiens in a repeatedly affected area in Italy. Parasites and Vectors, 2014, 7, 26.	1.0	23
35	Fitness characteristics of the malaria vector Anopheles funestus during an attempted laboratory colonization. Malaria Journal, 2021, 20, 148.	0.8	23
36	Selection of mosquito life-histories: a hidden weapon against malaria?. Malaria Journal, 2012, 11, 106.	0.8	22

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37	Insecticide resistance and behavioural adaptation as a response to long-lasting insecticidal net deployment in malaria vectors in the Cascades region of Burkina Faso. Scientific Reports, 2021, 11, 17569.	1.6	22
38	Colonization of malaria vectors under semi-field conditions as a strategy for maintaining genetic and phenotypic similarity with wild populations. Malaria Journal, 2015, 14, 10.	0.8	21
39	Evaluation of resting traps to examine the behaviour and ecology of mosquito vectors in an area of rapidly changing land use in Sabah, Malaysian Borneo. Parasites and Vectors, 2018, 11, 346.	1.0	21
40	Evaluation of mosquito electrocuting traps as a safe alternative to the human landing catch for measuring human exposure to malaria vectors in Burkina Faso. Malaria Journal, 2019, 18, 386.	0.8	21
41	The transmission potential of malaria-infected mosquitoes (An.gambiae-Keele, An.arabiensis-Ifakara) is altered by the vertebrate blood type they consume during parasite development. Scientific Reports, 2017, 7, 40520.	1.6	20
42	Epidemiology of the zoonotic malaria Plasmodium knowlesi in changing landscapes. Advances in Parasitology, 2021, 113, 225-286.	1.4	19
43	The vectors of Plasmodium knowlesi and other simian malarias Southeast Asia: challenges in malaria elimination. Advances in Parasitology, 2021, 113, 131-189.	1.4	19
44	Plasmodium knowlesi invasion following spread by infected mosquitoes, macaques and humans. Parasitology, 2018, 145, 101-110.	0.7	17
45	Environmental and spatial risk factors for the larval habitats of Plasmodium knowlesi vectors in Sabah, Malaysian Borneo. Scientific Reports, 2021, 11, 11810.	1.6	17
46	Evaluation of electric nets as means to sample mosquito vectors host-seeking on humans and primates. Parasites and Vectors, 2017, 10, 338.	1.0	16
47	Impact of ENSO 2016â€“17 on regional climate and malaria vector dynamics in Tanzania. Environmental Research Letters, 2019, 14, 075009.	2.2	16
48	Human exposure to zoonotic malaria vectors in village, farm and forest habitats in Sabah, Malaysian Borneo. PLoS Neglected Tropical Diseases, 2020, 14, e0008617.	1.3	16
49	Distance sampling for epidemiology: an interactive tool for estimating under-reporting of cases from clinic data. International Journal of Health Geographics, 2020, 19, 16.	1.2	14
50	Using ecological observations to improve malaria control in areas where Anopheles funestus is the dominant vector. Malaria Journal, 2022, 21, .	0.8	14
51	Vector species-specific association between natural Wolbachia infections and avian malaria in black fly populations. Scientific Reports, 2018, 8, 4188.	1.6	13
52	Mesocosm experiments reveal the impact of mosquito control measures on malaria vector life history and population dynamics. Scientific Reports, 2018, 8, 13949.	1.6	13
53	Quantifying individual variability in exposure risk to mosquito bites in the Cascades region, Burkina Faso. Malaria Journal, 2021, 20, 44.	0.8	13
54	Achieving explanatory depth and spatial breadth in infectious disease modelling: Integrating active and passive case surveillance. Statistical Methods in Medical Research, 2020, 29, 1273-1287.	0.7	12

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55	Metaviromics Reveals Unknown Viral Diversity in the Biting Midge Culicoides impunctatus. Viruses, 2019, 11, 865.	1.5	11
56	The mosquito electrocuting trap as an exposure-free method for measuring human-biting rates by Aedes mosquito vectors. Parasites and Vectors, 2020, 13, 31.	1.0	9
57	The impact of low erythrocyte density in human blood on the fitness and energetic reserves of the African malaria vector Anopheles gambiae. Malaria Journal, 2013, 12, 45.	0.8	7
58	Wild populations of malaria vectors can mate both inside and outside human dwellings. Parasites and Vectors, 2021, 14, 514.	1.0	5
59	The presence of Plasmodium falciparum gametocytes in human blood increases the gravidity of Anopheles gambiae mosquitoes. American Journal of Tropical Medicine and Hygiene, 2005, 73, 312-20.	0.6	4
60	Using Bayesian state-space models to understand the population dynamics of the dominant malaria vector, Anopheles funestus in rural Tanzania. Malaria Journal, 2022, 21, .	0.8	4
61	The seasonal dynamics and biting behavior of potential Anopheles vectors of Plasmodium knowlesi in Palawan, Philippines. Parasites and Vectors, 2021, 14, 357.	1.0	2
62	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. Wellcome Open Research, 0, 4, 76.	0.9	2
63	Exposure of Primate Reservoir Hosts to Mosquito Vectors in Malaysian Borneo. EcoHealth, 2022, 19, 233-245.	0.9	1
64	A protocol for a longitudinal, observational cohort study of infection and exposure to zoonotic and vector-borne diseases across a land-use gradient in Sabah, Malaysian Borneo: a socio-ecological systems approach. Wellcome Open Research, 2022, 7, 63.	0.9	0
65	Title is missing!. , 2020, 14, e0008617.		0
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67	Title is missing!. , 2020, 14, e0008617.		0
68	Title is missing!. , 2020, 14, e0008617.		0
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