

Matthew B Thomas

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

9,173
citations

38742

50
h-index

46799

89
g-index

127
all docs

127
docs citations

127
times ranked

7933
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of novel lab assays to examine the effect of pyrethroid-treated bed nets on blood-feeding success and longevity of highly insecticide-resistant <i>Anopheles gambiae</i> s.l. mosquitoes. <i>Parasites and Vectors</i> , 2022, 15, 111.	2.5	10
2	Impact and cost-effectiveness of a lethal house lure against malaria transmission in central Côte d'Ivoire: a two-arm, cluster-randomised controlled trial. <i>Lancet, The</i> , 2021, 397, 805-815.	13.7	29
3	A non-destructive sugar-feeding assay for parasite detection and estimating the extrinsic incubation period of <i>Plasmodium falciparum</i> in individual mosquito vectors. <i>Scientific Reports</i> , 2021, 11, 9344.	3.3	14
4	Microbes increase thermal sensitivity in the mosquito <i>Aedes aegypti</i> , with the potential to change disease distributions. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009548.	3.0	16
5	Threats to the effectiveness of insecticide-treated bednets for malaria control: thinking beyond insecticide resistance. <i>The Lancet Global Health</i> , 2021, 9, e1325-e1331.	6.3	94
6	The role of human and mosquito behaviour in the efficacy of a house-based intervention. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190815.	4.0	6
7	Spatial targeting of Screening + Eave tubes (SET), a house-based malaria control intervention, in Côte d'Ivoire: A geostatistical modelling study. <i>PLOS Global Public Health</i> , 2021, 1, e0000030.	1.6	1
8	Evaluation of the interaction between insecticide resistance-associated genes and malaria transmission in <i>Anopheles gambiae sensu lato</i> in central Côte d'Ivoire. <i>Parasites and Vectors</i> , 2021, 14, 581.	2.5	9
9	Fine scale spatial investigation of multiple insecticide resistance and underlying target-site and metabolic mechanisms in <i>Anopheles gambiae</i> in central Côte d'Ivoire. <i>Scientific Reports</i> , 2020, 10, 15066.	3.3	28
10	The influence of feeding behaviour and temperature on the capacity of mosquitoes to transmit malaria. <i>Nature Ecology and Evolution</i> , 2020, 4, 940-951.	7.8	17
11	The Role of Vector Trait Variation in Vector-Borne Disease Dynamics. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	57
12	Use of alternative bioassays to explore the impact of pyrethroid resistance on LLIN efficacy. <i>Parasites and Vectors</i> , 2020, 13, 179.	2.5	11
13	Epidemics on the move: Climate change and infectious disease. <i>PLoS Biology</i> , 2020, 18, e3001013.	5.6	27
14	Thermal biology of mosquito-borne disease. <i>Ecology Letters</i> , 2019, 22, 1690-1708.	6.4	349
15	Semi-field evaluation of the cumulative effects of a Lethal House Lure on malaria mosquito mortality. <i>Malaria Journal</i> , 2019, 18, 298.	2.3	8
16	Sublethal effects of mixed fungal infections on the Moroccan locust, <i>Dociostaurus maroccanus</i> . <i>Journal of Invertebrate Pathology</i> , 2019, 161, 61-69.	3.2	3
17	Exploring the lower thermal limits for development of the human malaria parasite, <i>Plasmodium falciparum</i> . <i>Biology Letters</i> , 2019, 15, 20190275.	2.3	17
18	Field Relevant Variation in Ambient Temperature Modifies Density-Dependent Establishment of <i>Plasmodium falciparum</i> Gametocytes in Mosquitoes. <i>Frontiers in Microbiology</i> , 2019, 10, 2651.	3.5	12

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19	Integrating Models of Diffusion and Behavior to Predict Innovation Adoption, Maintenance, and Social Diffusion. <i>Journal of Health Communication</i> , 2018, 23, 264-271.	2.4	23
20	The interplay between dose and immune system activation determines fungal infection outcome in the African malaria mosquito, <i>Anopheles gambiae</i> . <i>Developmental and Comparative Immunology</i> , 2018, 85, 125-133.	2.3	17
21	Transmission traits of malaria parasites within the mosquito: Genetic variation, phenotypic plasticity, and consequences for control. <i>Evolutionary Applications</i> , 2018, 11, 456-469.	3.1	52
22	Biological control of human disease vectors: a perspective on challenges and opportunities. <i>BioControl</i> , 2018, 63, 61-69.	2.0	76
23	Insights from agriculture for the management of insecticide resistance in disease vectors. <i>Evolutionary Applications</i> , 2018, 11, 404-414.	3.1	32
24	Empirical and theoretical investigation into the potential impacts of insecticide resistance on the effectiveness of insecticide-treated bed nets. <i>Evolutionary Applications</i> , 2018, 11, 431-441.	3.1	47
25	Cryogenically preserved RBCs support gametocytogenesis of <i>Plasmodium falciparum</i> in vitro and gametogenesis in mosquitoes. <i>Malaria Journal</i> , 2018, 17, 457.	2.3	16
26	Comparative effects of temperature and thermoregulation on candidate strains of entomopathogenic fungi for Moroccan locust <i>Dociostaurus maroccanus</i> control. <i>BioControl</i> , 2018, 63, 819-831.	2.0	6
27	Screening and field performance of powder-formulated insecticides on eave tube inserts against pyrethroid resistant <i>Anopheles gambiae</i> s.l.: an investigation into "actives" prior to a randomized controlled trial in Côte d'Ivoire. <i>Malaria Journal</i> , 2018, 17, 374.	2.3	11
28	Evaluating the impact of screening plus eave tubes on malaria transmission compared to current best practice in central Côte d'Ivoire: a two armed cluster randomized controlled trial. <i>BMC Public Health</i> , 2018, 18, 894.	2.9	23
29	Semi-field studies to better understand the impact of eave tubes on mosquito mortality and behaviour. <i>Malaria Journal</i> , 2018, 17, 306.	2.3	11
30	Rethinking the extrinsic incubation period of malaria parasites. <i>Parasites and Vectors</i> , 2018, 11, 178.	2.5	93
31	Microclimate variables of the ambient environment deliver the actual estimates of the extrinsic incubation period of <i>Plasmodium vivax</i> and <i>Plasmodium falciparum</i> : a study from a malaria-endemic urban setting, Chennai in India. <i>Malaria Journal</i> , 2018, 17, 201.	2.3	25
32	The importance of temperature fluctuations in understanding mosquito population dynamics and malaria risk. <i>Royal Society Open Science</i> , 2017, 4, 160969.	2.4	88
33	Increasing the potential for malaria elimination by targeting zoophilic vectors. <i>Scientific Reports</i> , 2017, 7, 40551.	3.3	47
34	Priorities for Broadening the Malaria Vector Control Tool Kit. <i>Trends in Parasitology</i> , 2017, 33, 763-774.	3.3	47
35	Resting and feeding preferences of <i>Anopheles stephensi</i> in an urban setting, perennial for malaria. <i>Malaria Journal</i> , 2017, 16, 111.	2.3	50
36	Quantifying the effects of temperature on mosquito and parasite traits that determine the transmission potential of human malaria. <i>PLoS Biology</i> , 2017, 15, e2003489.	5.6	179

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37	Detecting the impact of temperature on transmission of Zika, dengue, and chikungunya using mechanistic models. PLoS Neglected Tropical Diseases, 2017, 11, e0005568.	3.0	430
38	Eave tubes for malaria control in Africa: an introduction. Malaria Journal, 2016, 15, 404.	2.3	54
39	Eave tubes for malaria control in Africa: initial development and semi-field evaluations in Tanzania. Malaria Journal, 2016, 15, 447.	2.3	50
40	Eave tubes for malaria control in Africa: a modelling assessment of potential impact on transmission. Malaria Journal, 2016, 15, 449.	2.3	22
41	The threat (or not) of insecticide resistance for malaria control. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8900-8902.	7.1	46
42	Larval food quantity affects the capacity of adult mosquitoes to transmit human malaria. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160298.	2.6	74
43	Global threat to agriculture from invasive species. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7575-7579.	7.1	563
44	Fitness consequences of altered feeding behavior in immune-challenged mosquitoes. Parasites and Vectors, 2016, 9, 113.	2.5	20
45	Immune response and insulin signalling alter mosquito feeding behaviour to enhance malaria transmission potential. Scientific Reports, 2015, 5, 11947.	3.3	35
46	The potential for fungal biopesticides to reduce malaria transmission under diverse environmental conditions. Journal of Applied Ecology, 2015, 52, 1558-1566.	4.0	18
47	Influence of biotic and abiotic factors on the persistence of a <i>Beauveria bassiana</i> biopesticide in laboratory and high-rise poultry house settings. Biocontrol Science and Technology, 2015, 25, 1317-1332.	1.3	6
48	Climate, environmental and socio-economic change: weighing up the balance in vector-borne disease transmission. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130551.	4.0	215
49	Interactions between a fungal entomopathogen and malaria parasites within a mosquito vector. Malaria Journal, 2015, 14, 22.	2.3	9
50	Persistence and efficacy of a <i>Beauveria bassiana</i> biopesticide against the house fly, <i>Musca domestica</i> , on typical structural substrates of poultry houses. Biocontrol Science and Technology, 2015, 25, 697-715.	1.3	11
51	Potential for biocontrol of house flies, <i>Musca domestica</i> , using fungal biopesticides. Biocontrol Science and Technology, 2015, 25, 513-524.	1.3	22
52	Temperature alters Plasmodium blocking by Wolbachia. Scientific Reports, 2015, 4, 3932.	3.3	109
53	The Influence of Diurnal Temperature Variation on Degree-Day Accumulation and Insect Life History. PLoS ONE, 2015, 10, e0120772.	2.5	18
54	Malaria Mosquitoes Host-Locate and Feed upon Caterpillars. PLoS ONE, 2014, 9, e108894.	2.5	12

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55	Evaluating the efficacy of biological and conventional insecticides with the new "MCD bottle"™ bioassay. <i>Malaria Journal</i> , 2014, 13, 499.	2.3	25
56	Capacity of mosquitoes to transmit malaria depends on larval environment. <i>Parasites and Vectors</i> , 2014, 7, 593.	2.5	110
57	Downscaling reveals diverse effects of anthropogenic climate warming on the potential for local environments to support malaria transmission. <i>Climatic Change</i> , 2014, 125, 479-488.	3.6	13
58	Alterations in mosquito behaviour by malaria parasites: potential impact on force of infection. <i>Malaria Journal</i> , 2014, 13, 164.	2.3	50
59	Local adaptation to temperature and the implications for vector-borne diseases. <i>Trends in Parasitology</i> , 2014, 30, 115-122.	3.3	107
60	Ambient temperature and dietary supplementation interact to shape mosquito vector competence for malaria. <i>Journal of Insect Physiology</i> , 2014, 67, 37-44.	2.0	39
61	Characterizing microclimate in urban malaria transmission settings: a case study from Chennai, India. <i>Malaria Journal</i> , 2013, 12, 84.	2.3	57
62	Complex environmental drivers of immunity and resistance in malaria mosquitoes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20132030.	2.6	78
63	House flies delay fungal infection by fevering: at a cost. <i>Ecological Entomology</i> , 2013, 38, 1-10.	2.2	27
64	"Manipulation"™ without the parasite: altered feeding behaviour of mosquitoes is not dependent on infection with malaria parasites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130711.	2.6	97
65	Temperature-Dependent Pre-Bloodmeal Period and Temperature-Driven Asynchrony between Parasite Development and Mosquito Biting Rate Reduce Malaria Transmission Intensity. <i>PLoS ONE</i> , 2013, 8, e55777.	2.5	52
66	Discriminating Fever Behavior in House Flies. <i>PLoS ONE</i> , 2013, 8, e62269.	2.5	25
67	Malaria Mosquitoes Attracted by Fatal Fungus. <i>PLoS ONE</i> , 2013, 8, e62632.	2.5	36
68	Lessons from Agriculture for the Sustainable Management of Malaria Vectors. <i>PLoS Medicine</i> , 2012, 9, e1001262.	8.4	73
69	Warmer temperatures reduce the vectorial capacity of malaria mosquitoes. <i>Biology Letters</i> , 2012, 8, 465-468.	2.3	104
70	Complex effects of temperature on mosquito immune function. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3357-3366.	2.6	139
71	Effects of <i>Beauveria bassiana</i> on Survival, Blood-Feeding Success, and Fecundity of <i>Aedes aegypti</i> in Laboratory and Semi-Field Conditions. <i>American Journal of Tropical Medicine and Hygiene</i> , 2012, 86, 656-664.	1.4	71
72	Do malaria parasites manipulate mosquitoes?. <i>Trends in Parasitology</i> , 2012, 28, 466-470.	3.3	93

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73	Rethinking vector immunology: the role of environmental temperature in shaping resistance. <i>Nature Reviews Microbiology</i> , 2012, 10, 869-876.	28.6	131
74	Malaria in India: The Center for the Study of Complex Malaria in India. <i>Acta Tropica</i> , 2012, 121, 267-273.	2.0	115
75	A preliminary evaluation of the potential of <i>Beauveria bassiana</i> for bed bug control. <i>Journal of Invertebrate Pathology</i> , 2012, 111, 82-85.	3.2	69
76	Prospective malaria control using entomopathogenic fungi: comparative evaluation of impact on transmission and selection for resistance. <i>Malaria Journal</i> , 2012, 11, 383.	2.3	22
77	Evaluating the lethal and pre-lethal effects of a range of fungi against adult <i>Anopheles stephensi</i> mosquitoes. <i>Malaria Journal</i> , 2012, 11, 365.	2.3	29
78	Storage and persistence of a candidate fungal biopesticide for use against adult malaria vectors. <i>Malaria Journal</i> , 2012, 11, 354.	2.3	32
79	Evaluation of entomopathogenic fungi as potential biological control agents of the dengue mosquito, <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Biocontrol Science and Technology</i> , 2011, 21, 1027-1047.	1.3	35
80	Wealth versus warming. <i>Nature Climate Change</i> , 2011, 1, 349-350.	18.8	9
81	Prioritising biosecurity investment between agricultural and environmental systems. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2011, 6, 3-13.	1.4	5
82	The influence of mosquito resting behaviour and associated microclimate for malaria risk. <i>Malaria Journal</i> , 2011, 10, 183.	2.3	94
83	Reduction in host-finding behaviour in fungus-infected mosquitoes is correlated with reduction in olfactory receptor neuron responsiveness. <i>Malaria Journal</i> , 2011, 10, 219.	2.3	34
84	Lethal and Pre-Lethal Effects of a Fungal Biopesticide Contribute to Substantial and Rapid Control of Malaria Vectors. <i>PLoS ONE</i> , 2011, 6, e23591.	2.5	77
85	Using a self-organizing map to predict invasive species: sensitivity to data errors and a comparison with expert opinion. <i>Journal of Applied Ecology</i> , 2010, 47, 290-298.	4.0	51
86	Synergy in Efficacy of Fungal Entomopathogens and Permethrin against West African Insecticide-Resistant <i>Anopheles gambiae</i> Mosquitoes. <i>PLoS ONE</i> , 2010, 5, e12081.	2.5	72
87	Influence of climate on malaria transmission depends on daily temperature variation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15135-15139.	7.1	443
88	The entomopathogenic fungus <i>Beauveria bassiana</i> reduces instantaneous blood feeding in wild multi-insecticide-resistant <i>Culex quinquefasciatus</i> mosquitoes in Benin, West Africa. <i>Parasites and Vectors</i> , 2010, 3, 87.	2.5	51
89	The infectivity of the entomopathogenic fungus <i>Beauveria bassiana</i> to insecticide-resistant and susceptible <i>Anopheles arabiensis</i> mosquitoes at two different temperatures. <i>Malaria Journal</i> , 2010, 9, 71.	2.3	50
90	Fungal infection counters insecticide resistance in African malaria mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17443-17447.	7.1	126

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91	Understanding the link between malaria risk and climate. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13844-13849.	7.1	355
92	How to Make Evolution-Proof Insecticides for Malaria Control. PLoS Biology, 2009, 7, e1000058.	5.6	208
93	Towards evolution- proof malaria control with insecticides. Evolutionary Applications, 2009, 2, 469-480.	3.1	82
94	Real-time quantitative PCR for analysis of candidate fungal biopesticides against malaria: Technique validation and first applications. Journal of Invertebrate Pathology, 2009, 100, 160-168.	3.2	60
95	Spore Persistence and Likelihood of Aeroallergenicity of Entomopathogenic Fungi Used for Mosquito Control. American Journal of Tropical Medicine and Hygiene, 2009, 80, 992-997.	1.4	44
96	Spore persistence and likelihood of aeroallergenicity of entomopathogenic fungi used for mosquito control. American Journal of Tropical Medicine and Hygiene, 2009, 80, 992-7.	1.4	22
97	Can fungal biopesticides control malaria?. Nature Reviews Microbiology, 2007, 5, 377-383.	28.6	239
98	Development of a model for evaluating the effects of environmental temperature and thermal behaviour on biological control of locusts and grasshoppers using pathogens. Agricultural and Forest Entomology, 2007, 9, 189-199.	1.3	36
99	Use of a geographic information system to explore spatial variation in pathogen virulence and the implications for biological control of locusts and grasshoppers. Agricultural and Forest Entomology, 2007, 9, 201-208.	1.3	26
100	Making ecological science policy-relevant: issues of scale and disciplinary integration. Landscape Ecology, 2007, 22, 799-809.	4.2	44
101	Thermal biology of the meadow grasshopper, <i>Chorthippus parallelus</i> , and the implications for resistance to disease. Ecological Entomology, 2005, 30, 724-732.	2.2	24
102	Mixed infections and insect-pathogen interactions. Ecology Letters, 2003, 6, 183-188.	6.4	101
103	Fever and phenotype: transgenerational effect of disease on desert locust phase state. Ecology Letters, 2003, 6, 830-836.	6.4	28
104	Thermal biology in insect-parasite interactions. Trends in Ecology and Evolution, 2003, 18, 344-350.	8.7	396
105	Genotype and temperature influence pea aphid resistance to a fungal entomopathogen. Physiological Entomology, 2003, 28, 75-81.	1.5	71
106	Host-pathogen interactions in a varying environment: temperature, behavioural fever and fitness. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1599-1607.	2.6	188
107	Natural enemy diversity and pest control: patterns of pest emergence with agricultural intensification. Ecology Letters, 2002, 5, 353-360.	6.4	241
108	Temperature checks the Red Queen? Resistance and virulence in a fluctuating environment. Ecology Letters, 2002, 6, 2-5.	6.4	169

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109	Are the ecological concepts of assembly and function of biodiversity useful frameworks for understanding natural pest control?. <i>Agricultural and Forest Entomology</i> , 2002, 4, 237-243.	1.3	20
110	Adult Survival, Maturation, and Reproduction of the Desert Locust <i>Schistocerca gregaria</i> Infected with the Fungus <i>Metarhizium anisopliae</i> var <i>acridum</i> . <i>Journal of Invertebrate Pathology</i> , 2001, 78, 1-8.	3.2	85
111	Effects of Temperature and Relative Humidity on Sporulation of <i>Metarhizium anisopliae</i> var. <i>acridum</i> in Mycosed Cadavers of <i>Schistocerca gregaria</i> . <i>Journal of Invertebrate Pathology</i> , 2001, 78, 59-65.	3.2	87
112	Behavioural changes in <i>Schistocerca gregaria</i> following infection with a fungal pathogen: implications for susceptibility to predation. <i>Ecological Entomology</i> , 2001, 26, 227-234.	2.2	23
113	Thermal ecology of <i>Zonocerus variegatus</i> and its effects on biocontrol using pathogens. <i>Agricultural and Forest Entomology</i> , 2000, 2, 3-10.	1.3	18
114	Effects of a Mycoinsecticide on Feeding and Fecundity of the Brown Locust <i>Locustana pardalina</i> . <i>Biocontrol Science and Technology</i> , 2000, 10, 321-329.	1.3	51
115	Super-sensitivity to structure in biological models. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 565-570.	2.6	106
116	Host thermal biology: the key to understanding host-pathogen interactions and microbial pest control?. <i>Agricultural and Forest Entomology</i> , 1999, 1, 195-202.	1.3	98
117	Is the increased vigour of invasive weeds explained by a trade-off between growth and herbivore resistance?. <i>Oecologia</i> , 1999, 120, 632-640.	2.0	125
118	Behavioural fever in the Senegalese grasshopper, <i>Oedaleus senegalensis</i> , and its implications for biological control using pathogens. <i>Ecological Entomology</i> , 1998, 23, 9-14.	2.2	94
119	Reduction of Feeding by the Variegated Grasshopper, <i>Zonocerus variegatus</i> , Following Infection by the Fungal Pathogen, <i>Metarhizium flavoviride</i> . <i>Biocontrol Science and Technology</i> , 1997, 7, 327-334.	1.3	57
120	Effects of temperature on growth of <i>Metarhizium flavoviride</i> and virulence to the variegated grasshopper, <i>Zonocerus variegatus</i> . <i>Mycological Research</i> , 1997, 101, 1469-1474.	2.5	80
121	Persistence of <i>Metarhizium flavoviride</i> and Consequences for Biological Control of Grasshoppers and Locusts. <i>Pest Management Science</i> , 1997, 49, 47-55.	0.4	39
122	Effect of Formulation and Application Method on the Efficacy of Aerial and Submerged Conidia of <i>Metarhizium flavoviride</i> for Locust and Grasshopper Control. <i>Pest Management Science</i> , 1996, 46, 299-306.	0.4	42