

Michelle L Gatton

List of Publications by Year in descending order

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106
papers

5,029
citations

94433

37
h-index

106344

65
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106
all docs

106
docs citations

106
times ranked

5132
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic review of mathematical models of mosquito-borne pathogen transmission: 1970â€“2010. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120921.	3.4	306
2	THE IMPORTANCE OF MOSQUITO BEHAVIOURAL ADAPTATIONS TO MALARIA CONTROL IN AFRICA. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1218-1230.	2.3	253
3	A large proportion of asymptomatic <i>Plasmodium</i> infections with low and sub-microscopic parasite densities in the low transmission setting of Temotu Province, Solomon Islands: challenges for malaria diagnostics in an elimination setting. <i>Malaria Journal</i> , 2010, 9, 254.	2.3	243
4	Genetic Diversity of <i>Plasmodium falciparum</i> Histidine-Rich Protein 2 (PfHRP2) and Its Effect on the Performance of PfHRP2-Based Rapid Diagnostic Tests. <i>Journal of Infectious Diseases</i> , 2005, 192, 870-877.	4.0	240
5	Artemisinin-Induced Dormancy in <i>Plasmodium falciparum</i> : Duration, Recovery Rates, and Implications in Treatment Failure. <i>Journal of Infectious Diseases</i> , 2010, 202, 1362-1368.	4.0	195
6	<i>Plasmodium falciparum</i> parasites lacking histidine-rich protein 2 and 3: a review and recommendations for accurate reporting. <i>Malaria Journal</i> , 2014, 13, 283.	2.3	176
7	Effect of Sequence Variation in <i>Plasmodium falciparum</i> Histidine-Rich Protein 2 on Binding of Specific Monoclonal Antibodies: Implications for Rapid Diagnostic Tests for Malaria. <i>Journal of Clinical Microbiology</i> , 2006, 44, 2773-2778.	3.9	155
8	Relapses of <i>Plasmodium vivax</i> Infection Result from Clonal Hypnozoites Activated at Predetermined Intervals. <i>Journal of Infectious Diseases</i> , 2007, 195, 934-941.	4.0	144
9	Recasting the theory of mosquito-borne pathogen transmission dynamics and control. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2014, 108, 185-197.	1.8	142
10	Global sequence variation in the histidine-rich proteins 2 and 3 of <i>Plasmodium falciparum</i> : implications for the performance of malaria rapid diagnostic tests. <i>Malaria Journal</i> , 2010, 9, 129.	2.3	136
11	Major Threat to Malaria Control Programs by <i>Plasmodium falciparum</i> Lacking Histidine-Rich Protein 2, Eritrea. <i>Emerging Infectious Diseases</i> , 2018, 24, 462-470.	4.3	135
12	Suppression of mRNAs Encoding Tegument Tetraspanins from <i>Schistosoma mansoni</i> Results in Impaired Tegument Turnover. <i>PLoS Pathogens</i> , 2010, 6, e1000840.	4.7	117
13	Systematic Review of Sub-microscopic <i>P. vivax</i> Infections: Prevalence and Determining Factors. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e3413.	3.0	114
14	High diversity and rapid changeover of expressed var genes during the acute phase of <i>Plasmodium falciparum</i> infections in human volunteers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10689-10694.	7.1	103
15	Cross-Border Malaria: A Major Obstacle for Malaria Elimination. <i>Advances in Parasitology</i> , 2015, 89, 79-107.	3.2	100
16	A review of the WHO malaria rapid diagnostic test product testing programme (2008â€“2018): performance, procurement and policy. <i>Malaria Journal</i> , 2019, 18, 387.	2.3	86
17	Artemisinin-induced parasite dormancy: a plausible mechanism for treatment failure. <i>Malaria Journal</i> , 2011, 10, 56.	2.3	78
18	Evolution of Resistance to Sulfadoxine-Pyrimethamine in <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 2116-2123.	3.2	73

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19	Artemisinin resistance in Plasmodium falciparum: A process linked to dormancy?. International Journal for Parasitology: Drugs and Drug Resistance, 2012, 2, 249-255.	3.4	69
20	Temporal patterns and predictors of bullying roles among adolescents in Vietnam: a school-based cohort study. Psychology, Health and Medicine, 2017, 22, 107-121.	2.4	68
21	Phenotypic Changes in Artemisinin-Resistant Plasmodium falciparum Lines <i>In Vitro</i> : Evidence for Decreased Sensitivity to Dormancy and Growth Inhibition. Antimicrobial Agents and Chemotherapy, 2012, 56, 428-431.	3.2	63
22	Fatty Acid Synthesis and Pyruvate Metabolism Pathways Remain Active in Dihydroartemisinin-Induced Dormant Ring Stages of Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2014, 58, 4773-4781.	3.2	62
23	Mitochondrial Membrane Potential in a Small Subset of Artemisinin-Induced Dormant Plasmodium falciparum Parasites In Vitro. Journal of Infectious Diseases, 2015, 212, 426-434.	4.0	62
24	Transcription and Expression of Plasmodium falciparum Histidine-Rich Proteins in Different Stages and Strains: Implications for Rapid Diagnostic Tests. PLoS ONE, 2011, 6, e22593.	2.5	61
25	The Plasmodium falciparum var gene switching rate, switching mechanism and patterns of parasite recrudescence described by mathematical modelling. Parasitology, 2002, 124, 225-235.	1.5	57
26	Identification of Optimal Epitopes for Plasmodium falciparum Rapid Diagnostic Tests That Target Histidine-Rich Proteins 2 and 3. Journal of Clinical Microbiology, 2012, 50, 1397-1405.	3.9	57
27	Mutations in Cytochrome b Resulting in Atovaquone Resistance Are Associated with Loss of Fitness in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2002, 46, 2435-2441.	3.2	53
28	Differential Changes in Plasmodium falciparum var Transcription during Adaptation to Culture. Journal of Infectious Diseases, 2007, 195, 748-755.	4.0	53
29	Genetic diversity of the DBL α region in Plasmodium falciparum var genes among Asia-Pacific isolates. Molecular and Biochemical Parasitology, 2002, 120, 117-126.	1.1	52
30	Critical Evaluation of Quantitative Sampling Methods for Aedes aegypti (Diptera: Culicidae) Immatures in Water Storage Containers in Vietnam. Journal of Medical Entomology, 2007, 44, 192-204.	1.8	51
31	ENVIRONMENTAL PREDICTORS OF ROSS RIVER VIRUS DISEASE OUTBREAKS IN QUEENSLAND, AUSTRALIA. American Journal of Tropical Medicine and Hygiene, 2005, 72, 792-799.	1.4	50
32	Implications of Parasites Lacking Plasmodium falciparum Histidine-Rich Protein 2 on Malaria Morbidity and Control When Rapid Diagnostic Tests Are Used for Diagnosis. Journal of Infectious Diseases, 2017, 215, 1156-1166.	4.0	46
33	Evaluation of the pyrogenic threshold for Plasmodium falciparum malaria in naive individuals.. American Journal of Tropical Medicine and Hygiene, 2002, 66, 467-473.	1.4	45
34	Comparative effectiveness of malaria prevention measures: a systematic review and network meta-analysis. Parasites and Vectors, 2018, 11, 210.	2.5	44
35	Malaria elimination in India and regional implications. Lancet Infectious Diseases, The, 2016, 16, e214-e224.	9.1	43
36	SPATIAL-TEMPORAL ANALYSIS OF ROSS RIVER VIRUS DISEASE PATTERNS IN QUEENSLAND, AUSTRALIA. American Journal of Tropical Medicine and Hygiene, 2004, 71, 629-635.	1.4	43

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37	Kinematics and movement sequencing during flexion of the lumbar spine. <i>Clinical Biomechanics</i> , 1999, 14, 376-383.	1.2	42
38	Critical Evaluation of Quantitative Sampling Methods for <i>Aedes aegypti</i> (Diptera: Culicidae) Immatures in Water Storage Containers in Vietnam. <i>Journal of Medical Entomology</i> , 2007, 44, 192-204.	1.8	41
39	Preferential Invasion by Plasmodium Merozoites and the Self-Regulation of Parasite Burden. <i>PLoS ONE</i> , 2013, 8, e57434.	2.5	40
40	Switching rates of Plasmodium falciparum var genes: faster than we thought?. <i>Trends in Parasitology</i> , 2003, 19, 202-208.	3.3	38
41	A three-dimensional mathematical model of the thoracolumbar fascia and an estimate of its biomechanical effect. <i>Journal of Biomechanics</i> , 2010, 43, 2792-2797.	2.1	38
42	Performance appraisal of rapid on-site malaria diagnosis (ICT malaria Pf/Pv test) in relation to human resources at village level in Myanmar. <i>Acta Tropica</i> , 2002, 81, 13-19.	2.0	36
43	Modeling the Development of Acquired Clinical Immunity to Plasmodium falciparum Malaria. <i>Infection and Immunity</i> , 2004, 72, 6538-6545.	2.2	35
44	Development and evaluation of a spatial decision support system for malaria elimination in Bhutan. <i>Malaria Journal</i> , 2016, 15, 180.	2.3	35
45	Comparative performance of four rapid Ebola antigen-detection lateral flow immunoassays during the 2014-2016 Ebola epidemic in West Africa. <i>PLoS ONE</i> , 2019, 14, e0212113.	2.5	35
46	Modelling the dynamics of Plasmodium falciparum histidine-rich protein 2 in human malaria to better understand malaria rapid diagnostic test performance. <i>Malaria Journal</i> , 2012, 11, 74.	2.3	33
47	Field epidemiological studies on malaria in a low endemic area in the Philippines. <i>Acta Tropica</i> , 1997, 63, 241-256.	2.0	31
48	Circulating antibodies against Plasmodium falciparum histidine-rich proteins 2 interfere with antigen detection by rapid diagnostic tests. <i>Malaria Journal</i> , 2014, 13, 480.	2.3	31
49	Longitudinal associations between bullying and mental health among adolescents in Vietnam. <i>International Journal of Public Health</i> , 2017, 62, 51-61.	2.3	31
50	Deamplification of pfmdr1 -Containing Amplicon on Chromosome 5 in Plasmodium falciparum Is Associated with Reduced Resistance to Artelinic Acid In Vitro. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3395-3401.	3.2	30
51	Pan-Plasmodium band sensitivity for Plasmodium falciparum detection in combination malaria rapid diagnostic tests and implications for clinical management. <i>Malaria Journal</i> , 2015, 14, 115.	2.3	30
52	HRP2 and pLDH-Based Rapid Diagnostic Tests, Expert Microscopy, and PCR for Detection of Malaria Infection during Pregnancy and at Delivery in Areas of Varied Transmission: A Prospective Cohort Study in Burkina Faso and Uganda. <i>PLoS ONE</i> , 2016, 11, e0156954.	2.5	27
53	Abundance and prevalence of Aedes aegypti immatures and relationships with household water storage in rural areas in southern Viet Nam. <i>International Health</i> , 2011, 3, 115-125.	2.0	25
54	Impact of Plasmodium falciparum gene deletions on malaria rapid diagnostic test performance. <i>Malaria Journal</i> , 2020, 19, 392.	2.3	25

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55	An Analytical Method for Assessing Stage-Specific Drug Activity in Plasmodium vivax Malaria: Implications for Ex Vivo Drug Susceptibility Testing. PLoS Neglected Tropical Diseases, 2012, 6, e1772.	3.0	23
56	Ross River Virus Disease Activity Associated With Naturally Occurring Nontidal Flood Events in Australia: A Systematic Review. Journal of Medical Entomology, 2014, 51, 1097-1108.	1.8	23
57	An assessment of false positive rates for malaria rapid diagnostic tests caused by non-Plasmodium infectious agents and immunological factors. PLoS ONE, 2018, 13, e0197395.	2.5	23
58	Mental health problems both precede and follow bullying among adolescents and the effects differ by gender: a cross-lagged panel analysis of school-based longitudinal data in Vietnam. International Journal of Mental Health Systems, 2019, 13, 35.	2.7	23
59	Modelling the line of action for the oblique abdominal muscles using an elliptical torso model. Journal of Biomechanics, 2001, 34, 1203-1207.	2.1	22
60	Investigating antigenic variation and other parasite-host interactions in Plasmodium falciparum infections in naive hosts. Parasitology, 2004, 128, 367-376.	1.5	20
61	Dormant <i>Plasmodium falciparum</i> Parasites in Human Infections Following Artesunate Therapy. Journal of Infectious Diseases, 2021, 223, 1631-1638.	4.0	18
62	Enhanced invasion of blood group A1 erythrocytes by Plasmodium falciparum. Molecular and Biochemical Parasitology, 2005, 144, 128-130.	1.1	17
63	Can estimates of antimalarial efficacy from field studies be improved?. Trends in Parasitology, 2008, 24, 68-73.	3.3	17
64	Spatial-temporal analysis of Ross River virus disease patterns in Queensland, Australia. American Journal of Tropical Medicine and Hygiene, 2004, 71, 629-35.	1.4	17
65	Difficulties in Estimating Muscle Forces From Muscle Cross-Sectional Area. Spine, 1999, 24, 1487.	2.0	16
66	Time of treatment influences the appearance of drug-resistant parasites in Plasmodium falciparum infections. Parasitology, 2001, 123, 537-46.	1.5	16
67	Outbreak detection algorithms for seasonal disease data: a case study using ross river virus disease. BMC Medical Informatics and Decision Making, 2010, 10, 74.	3.0	16
68	Prevalence of asymptomatic malaria and bed net ownership and use in Bhutan, 2013: a country earmarked for malaria elimination. Malaria Journal, 2014, 13, 352.	2.3	16
69	Individual- and Area-Level Socioeconomic Inequalities in Esophageal Cancer Survival in Shandong Province, China: A Multilevel Analysis. Cancer Epidemiology Biomarkers and Prevention, 2019, 28, 1427-1434.	2.5	16
70	Ross River Virus Disease Clusters and Spatial Relationship with Mosquito Biting Exposure in Redland Shire, Southern Queensland, Australia. Journal of Medical Entomology, 2006, 43, 1042-1059.	1.8	16
71	Costs to the patient for seeking malaria care in Myanmar. Acta Tropica, 2004, 92, 173-177.	2.0	15
72	Blood transfer devices for malaria rapid diagnostic tests: evaluation of accuracy, safety and ease of use. Malaria Journal, 2011, 10, 30.	2.3	15

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73	“Work it out™: evaluation of a chronic condition self-management program for urban Aboriginal and Torres Strait Islander people, with or at risk of cardiovascular disease. BMC Health Services Research, 2017, 17, 680.	2.2	15
74	Cytochrome P450 2D6 profiles and their relationship with outcomes of primaquine anti-relapse therapy in Australian Defence Force personnel deployed to Papua New Guinea and East Timor. Malaria Journal, 2019, 18, 140.	2.3	15
75	Different responses of dengue to weather variability across climate zones in Queensland, Australia. Environmental Research, 2020, 184, 109222.	7.5	15
76	Epidemiology of mutant Plasmodium falciparum parasites lacking histidine-rich protein 2/3 genes in Eritrea 2 years after switching from HRP2-based RDTs. Scientific Reports, 2021, 11, 21082.	3.3	15
77	Inhibition of 19-kDa C-Terminal Region of Merozoite Surface Protein-1-Specific Antibody Responses in Neonatal Pups by Maternally Derived 19-kDa C-Terminal Region of Merozoite Surface Protein-1-Specific Antibodies but Not Whole Parasite-Specific Antibodies. Journal of Immunology, 2004, 172, 5570-5581.	0.8	14
78	Gender differences in gastrointestinal disturbances and plasma concentrations of tafenoquine in healthy volunteers after tafenoquine administration for post-exposure vivax malaria prophylaxis. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2007, 101, 226-230.	1.8	14
79	No Genetic Bottleneck in <i>Plasmodium falciparum</i> Wild-Type Pf <i>crt</i> Alleles Reemerging in Hainan Island, China, following High-Level Chloroquine Resistance. Antimicrobial Agents and Chemotherapy, 2008, 52, 345-347.	3.2	14
80	Nature and Specificity of the Required Protective Immune Response That Develops Postchallenge in Mice Vaccinated with the 19-Kilodalton Fragment of Plasmodium yoelii Merozoite Surface Protein 1. Infection and Immunity, 2002, 70, 6013-6020.	2.2	13
81	An improved method for undertaking limiting dilution assays for in vitro cloning of Plasmodium falciparum parasites. Malaria Journal, 2011, 10, 95.	2.3	13
82	Area socioeconomic status is independently associated with esophageal cancer mortality in Shandong, China. Scientific Reports, 2019, 9, 6388.	3.3	13
83	DETECTION SENSITIVITY AND QUANTITATION OF PLASMODIUM FALCIPARUM VAR GENE TRANSCRIPTS BY REAL-TIME RT-PCR IN COMPARISON WITH CONVENTIONAL RT-PCR. American Journal of Tropical Medicine and Hygiene, 2006, 75, 212-218.	1.4	13
84	Interrupting Malaria Transmission: Quantifying the Impact of Interventions in Regions of Low to Moderate Transmission. PLoS ONE, 2010, 5, e15149.	2.5	12
85	Malaria burden and costs of intensified control in Bhutan, 2006–14: an observational study and situation analysis. The Lancet Global Health, 2016, 4, e336-e343.	6.3	12
86	Physical Linkage to Drug Resistance Genes Results in Conservation of var Genes among West Pacific Plasmodium falciparum Isolates. Journal of Infectious Diseases, 2006, 194, 939-948.	4.0	11
87	Climate variability, socio-ecological factors and dengue transmission in tropical Queensland, Australia: A Bayesian spatial analysis. Environmental Research, 2021, 195, 110285.	7.5	11
88	Detection sensitivity and quantitation of Plasmodium falciparum var gene transcripts by real-time RT-PCR in comparison with conventional RT-PCR. American Journal of Tropical Medicine and Hygiene, 2006, 75, 212-8.	1.4	11
89	Characterization of the Antibody Response against Plasmodium falciparum Erythrocyte Membrane Protein 1 in Human Volunteers. Infection and Immunity, 2007, 75, 5967-5973.	2.2	10
90	Sequential monitoring of hospital adverse events when control charts fail: the example of fall injuries in hospitals. Quality and Safety in Health Care, 2009, 18, 473-477.	2.5	10

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91	Spatial and temporal analysis of dengue infections in Queensland, Australia: Recent trend and perspectives. PLoS ONE, 2019, 14, e0220134.	2.5	10
92	Computational model of the lumbar spine musculature: Implications of spinal surgery. Clinical Biomechanics, 2011, 26, 116-122.	1.2	9
93	Flooding and Arboviral Disease: Predicting Ross River Virus Disease Outbreaks Across Inland Regions of South-Eastern Australia. Journal of Medical Entomology, 2020, 57, 241-251.	1.8	9
94	Plasmodium falciparum infection dynamics and transmission potential following treatment with sulfadoxine-pyrimethamine. Journal of Antimicrobial Chemotherapy, 2006, 58, 47-51.	3.0	8
95	New control chart methods for monitoring MROs in Hospitals. Healthcare Infection, 2007, 12, 14-18.	0.1	8
96	A simulation model of the within-host dynamics of Plasmodium vivax infection. Malaria Journal, 2015, 14, 51.	2.3	8
97	ANTIBODY REACTIVITY TO LINEAR EPITOPES OF PLASMODIUM FALCIPARUM CYTOADHERENCE-LINKED ASEXUAL GENE 9 IN ASYMPTOMATIC CHILDREN AND ADULTS FROM PAPUA NEW GUINEA. American Journal of Tropical Medicine and Hygiene, 2005, 72, 708-713.	1.4	7
98	HIV-Malaria Interactions: Don't Forget the Drugs. Science, 2007, 315, 1791-1791.	12.6	6
99	Household water and food insecurity negatively impacts self-reported physical and mental health in the Vietnamese Mekong Delta. PLoS ONE, 2022, 17, e0267344.	2.5	5
100	Prototype Positive Control Wells for Malaria Rapid Diagnostic Tests: Prospective Evaluation of Implementation Among Health Workers in Lao People's Democratic Republic and Uganda. American Journal of Tropical Medicine and Hygiene, 2017, 96, 319-329.	1.4	4
101	EFFICACY OF SULFADOXINE-PYRIMETHAMINE IN THE TREATMENT OF UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA IN EAST TIMOR. American Journal of Tropical Medicine and Hygiene, 2006, 74, 361-366.	1.4	4
102	Efficacy of sulfadoxine-pyrimethamine in the treatment of uncomplicated Plasmodium falciparum malaria in East Timor. American Journal of Tropical Medicine and Hygiene, 2006, 74, 361-6.	1.4	4
103	Quality Assurance of Aerial Applications of Larvicides for Mosquito Control: Effects of Granule and Catch Tray Size on Field Monitoring Programs. Journal of Economic Entomology, 2009, 102, 507-514.	1.8	3
104	Modelling the epidemiology of malaria and spread of HRP2-negative Plasmodium falciparum following the replacement of HRP2-detecting rapid diagnostic tests. PLOS Global Public Health, 2022, 2, e0000106.	1.6	3
105	Spatial-Temporal Epidemiological Analyses of Two Sympatric, Co-Endemic Alphaviral Diseases in Queensland, Australia. Vector-Borne and Zoonotic Diseases, 2011, 11, 375-382.	1.5	2
106	Household Food Insecurity in Regions of the Vietnamese Mekong Delta: Prevalence and Risk Factors. Journal of Hunger and Environmental Nutrition, 2023, 18, 503-523.	1.9	1