

Anthony A James

List of Publications by Year in descending order

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114
papers

7,616
citations

61984

43
h-index

60623

81
g-index

120
all docs

120
docs citations

120
times ranked

5644
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient Cas9-mediated gene drive for population modification of the malaria vector mosquito <i>Anopheles stephensi</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6736-43.	7.1	841
2	The invasive mosquito species <i>Aedes albopictus</i> : current knowledge and future perspectives. Trends in Parasitology, 2013, 29, 460-468.	3.3	478
3	Engineering RNA interference-based resistance to dengue virus type 2 in genetically modified <i>Aedes aegypti</i> . Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4198-4203.	7.1	357
4	Genetics of Mosquito Vector Competence. Microbiology and Molecular Biology Reviews, 2000, 64, 115-137.	6.6	308
5	Female-specific flightless phenotype for mosquito control. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4550-4554.	7.1	291
6	Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929.	12.6	254
7	Genome sequence of the Asian Tiger mosquito, <i>Aedes albopictus</i> , reveals insights into its biology, genetics, and evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5907-15.	7.1	251
8	Malaria Control with Genetically Manipulated Insect Vectors. Science, 2002, 298, 119-121.	12.6	221
9	Genetic elimination of dengue vector mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4772-4775.	7.1	212
10	Gene drive systems in mosquitoes: rules of the road. Trends in Parasitology, 2005, 21, 64-67.	3.3	175
11	Next-generation gene drive for population modification of the malaria vector mosquito, <i>Anopheles gambiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22805-22814.	7.1	157
12	Complex Modulation of the <i>Aedes aegypti</i> Transcriptome in Response to Dengue Virus Infection. PLoS ONE, 2012, 7, e50512.	2.5	138
13	RNA-seq analyses of blood-induced changes in gene expression in the mosquito vector species, <i>Aedes aegypti</i> . BMC Genomics, 2011, 12, 82.	2.8	133
14	Isolation and characterization of the gene expressing the major salivary gland protein of the female mosquito, <i>Aedes aegypti</i> . Molecular and Biochemical Parasitology, 1991, 44, 245-253.	1.1	131
15	Isolation and Characterization of the Gene Encoding a Novel Factor Xa-directed Anticoagulant from the Yellow Fever Mosquito, <i>Aedes aegypti</i> . Journal of Biological Chemistry, 1998, 273, 20802-20809.	3.4	131
16	A salivary gland-specific, maltase-like gene of the vector mosquito, <i>Aedes aegypti</i> . Gene, 1989, 75, 73-83.	2.2	130
17	Transgenic <i>Anopheles stephensi</i> coexpressing single-chain antibodies resist <i>Plasmodium falciparum</i> development. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1922-30.	7.1	119
18	Genome analysis of a major urban malaria vector mosquito, <i>Anopheles stephensi</i> . Genome Biology, 2014, 15, 459.	8.8	119

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19	Engineered Resistance to Plasmodium falciparum Development in Transgenic Anopheles stephensi. PLoS Pathogens, 2011, 7, e1002017.	4.7	114
20	CRISPR/Cas9 mediated knockout of the abdominal-A homeotic gene in the global pest, diamondback moth (Plutella xylostella). Insect Biochemistry and Molecular Biology, 2016, 75, 98-106.	2.7	111
21	Efficient population modification gene-drive rescue system in the malaria mosquito Anopheles stephensi. Nature Communications, 2020, 11, 5553.	12.8	110
22	Experimental population modification of the malaria vector mosquito, Anopheles stephensi. PLoS Genetics, 2019, 15, e1008440.	3.5	101
23	Diet and salivation in female Aedes aegypti mosquitoes. Journal of Insect Physiology, 1990, 36, 545-548.	2.0	87
24	Bombyx mori P-element Somatic Inhibitor (BmPSI) Is a Key Auxiliary Factor for Silkworm Male Sex Determination. PLoS Genetics, 2017, 13, e1006576.	3.5	85
25	Fall webworm genomes yield insights into rapid adaptation of invasive species. Nature Ecology and Evolution, 2019, 3, 105-115.	7.8	82
26	Promoter-directed expression of recombinant fire-fly luciferase in the salivary glands of Hermes-transformed Aedes aegypti. Gene, 1999, 226, 317-325.	2.2	79
27	Gene vector and transposable element behavior in mosquitoes. Journal of Experimental Biology, 2003, 206, 3823-3834.	1.7	79
28	Hidden genomic features of an invasive malaria vector, Anopheles stephensi, revealed by a chromosome-level genome assembly. BMC Biology, 2021, 19, 28.	3.8	77
29	Rules of the road for insect gene drive research and testing. Nature Biotechnology, 2017, 35, 716-718.	17.5	74
30	Fitness Impact and Stability of a Transgene Conferring Resistance to Dengue-2 Virus following Introgression into a Genetically Diverse Aedes aegypti Strain. PLoS Neglected Tropical Diseases, 2014, 8, e2833.	3.0	70
31	Population modification of Anopheline species to control malaria transmission. Pathogens and Global Health, 2017, 111, 424-435.	2.3	68
32	Field Cage Studies and Progressive Evaluation of Genetically-Engineered Mosquitoes. PLoS Neglected Tropical Diseases, 2013, 7, e2001.	3.0	68
33	Using RNA interference to develop dengue virus resistance in genetically modified Aedes aegypti. Insect Biochemistry and Molecular Biology, 2004, 34, 607-613.	2.7	65
34	nanos gene control DNA mediates developmentally regulated transposition in the yellow fever mosquito Aedes aegypti. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9970-9975.	7.1	62
35	Sexually dimorphic traits in the silkworm, Bombyx mori, are regulated by doublesex. Insect Biochemistry and Molecular Biology, 2017, 80, 42-51.	2.7	62
36	Integrated proteomic and transcriptomic analysis of the Aedes aegyptiegshell. BMC Developmental Biology, 2014, 14, 15.	2.1	61

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37	An α -glucosidase in the salivary glands of the vector mosquito, <i>Aedes aegypti</i> . <i>Insect Biochemistry</i> , 1990, 20, 619-623.	1.8	60
38	Transgenic Clustered Regularly Interspaced Short Palindromic Repeat/Cas9-Mediated Viral Gene Targeting for Antiviral Therapy of <i>Bombyx mori</i> Nucleopolyhedrovirus. <i>Journal of Virology</i> , 2017, 91, .	3.4	57
39	Proteomics reveals novel components of the <i>Anopheles gambiae</i> eggshell. <i>Journal of Insect Physiology</i> , 2010, 56, 1414-1419.	2.0	54
40	Cas9-Mediated Gene-Editing in the Malaria Mosquito <i>Anopheles stephensi</i> by ReMOT Control. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 1353-1360.	1.8	52
41	Characterization of a salivary gland-specific esterase in the vector mosquito, <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1995, 25, 621-630.	2.7	51
42	Molecular epidemiology of <i>Plasmodium vivax</i> and <i>Plasmodium falciparum</i> malaria among Duffy-positive and Duffy-negative populations in Ethiopia. <i>Malaria Journal</i> , 2015, 14, 84.	2.3	51
43	Blocking malaria parasite invasion of mosquito salivary glands. <i>Journal of Experimental Biology</i> , 2003, 206, 3817-3821.	1.7	50
44	Development of a population suppression strain of the human malaria vector mosquito, <i>Anopheles stephensi</i> . <i>Malaria Journal</i> , 2013, 12, 142.	2.3	49
45	Collagen-binding protein, Aegyptin, regulates probing time and blood feeding success in the dengue vector mosquito, <i>Aedes aegypti</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6946-6951.	7.1	49
46	Development and applications of transgenesis in the yellow fever mosquito, <i>Aedes aegypti</i> . <i>Molecular and Biochemical Parasitology</i> , 2002, 121, 1-10.	1.1	48
47	Differential Gene Expression in Insects: Transcriptional Control. <i>Annual Review of Entomology</i> , 1998, 43, 671-700.	11.8	45
48	Nanos (nos) genes of the vector mosquitoes, <i>Anopheles gambiae</i> , <i>Anopheles stephensi</i> and <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 789-798.	2.7	45
49	Gene Expression Studies in Mosquitoes. <i>Advances in Genetics</i> , 2008, 64, 19-50.	1.8	45
50	Functional characterization of the promoter of the vitellogenin gene, <i>AsVg1</i> , of the malaria vector, <i>Anopheles stephensi</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 694-700.	2.7	42
51	Molecular and Functional Characterization of Odorant-Binding Protein Genes in an Invasive Vector Mosquito, <i>Aedes albopictus</i> . <i>PLoS ONE</i> , 2013, 8, e68836.	2.5	42
52	Silkworm genetic sexing through W chromosome-linked, targeted gene integration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8752-8756.	7.1	40
53	Oxidation of 3-hydroxykynurenine to produce xanthommatin for eye pigmentation: a major branch pathway of tryptophan catabolism during pupal development in the Yellow Fever Mosquito, <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1999, 29, 329-338.	2.7	39
54	The redox-sensing gene <i>Nrf2</i> affects intestinal homeostasis, insecticide resistance, and Zika virus susceptibility in the mosquito <i>Aedes aegypti</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 9053-9063.	3.4	38

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55	Engineering Plasmodium-refractory phenotypes in mosquitoes. Trends in Parasitology, 2003, 19, 384-387.	3.3	37
56	Expression and accumulation of the two-domain odorant-binding protein AegOBP45 in the ovaries of blood-fed Aedes aegypti. Parasites and Vectors, 2013, 6, 364.	2.5	37
57	GENETIC CONTROL OF MALARIA PARASITE TRANSMISSION: THRESHOLD LEVELS FOR INFECTION IN AN AVIAN MODEL SYSTEM. American Journal of Tropical Medicine and Hygiene, 2007, 76, 1072-1078.	1.4	37
58	Strain Variation in the Transcriptome of the Dengue Fever Vector, <i>Aedes aegypti</i> . G3: Genes, Genomes, Genetics, 2012, 2, 103-114.	1.8	36
59	A Regulatory Structure for Working with Genetically Modified Mosquitoes: Lessons from Mexico. PLoS Neglected Tropical Diseases, 2014, 8, e2623.	3.0	33
60	Functional analysis of Orco and odorant receptors in odor recognition in Aedes albopictus. Parasites and Vectors, 2016, 9, 363.	2.5	33
61	Criteria for Identifying and Evaluating Candidate Sites for Open-Field Trials of Genetically Engineered Mosquitoes. Vector-Borne and Zoonotic Diseases, 2014, 14, 291-299.	1.5	32
62	THE ANOPHELES GAMBIAE VITELLOGENIN GENE (VGT2) PROMOTER DIRECTS PERSISTENT ACCUMULATION OF A REPORTER GENE PRODUCT IN TRANSGENIC ANOPHELES STEPHENSI FOLLOWING MULTIPLE BLOODMEALS. American Journal of Tropical Medicine and Hygiene, 2007, 76, 1118-1124.	1.4	31
63	Purified mariner (Mos1) transposase catalyzes the integration of marked elements into the germ-line of the yellow fever mosquito, Aedes aegypti. Insect Biochemistry and Molecular Biology, 2000, 30, 1003-1008.	2.7	30
64	Mutation of the seminal protease gene, serine protease 2, results in male sterility in diverse lepidopterans. Insect Biochemistry and Molecular Biology, 2020, 116, 103243.	2.7	28
65	From Tucson to Genomics and Transgenics: The Vector Biology Network and the Emergence of Modern Vector Biology. PLoS Neglected Tropical Diseases, 2009, 3, e343.	3.0	27
66	Germline Transformants Spreading Out to Many Insect Species. Advances in Genetics, 2002, 47, 49-88e.	1.8	26
67	Reframing Critical Needs in Vector Biology and Management of Vector-Borne Disease. PLoS Neglected Tropical Diseases, 2010, 4, e566.	3.0	25
68	Mosquito Trials. Science, 2011, 334, 771-772.	12.6	25
69	Site-specific, TALENs-mediated transformation of Bombyx mori. Insect Biochemistry and Molecular Biology, 2014, 55, 26-30.	2.7	25
70	Bombyx mori histone methyltransferase BmAsh2 is essential for silkworm piRNA-mediated sex determination. PLoS Genetics, 2018, 14, e1007245.	3.5	24
71	Exogenous <i>gypsy</i> insulator sequences modulate transgene expression in the malaria vector mosquito, <i>Anopheles stephensi</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7176-7181.	7.1	22
72	Structure and expression of the lipophorin-encoding gene of the malaria vector, Anopheles gambiae. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2006, 144, 101-109.	1.6	21

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73	Genetic control of malaria parasite transmission: threshold levels for infection in an avian model system. <i>American Journal of Tropical Medicine and Hygiene</i> , 2007, 76, 1072-8.	1.4	20
74	The <i>Anopheles gambiae</i> vitellogenin gene (VGT2) promoter directs persistent accumulation of a reporter gene product in transgenic <i>Anopheles stephensi</i> following multiple bloodmeals. <i>American Journal of Tropical Medicine and Hygiene</i> , 2007, 76, 1118-24.	1.4	19
75	Oxitec and MosquitoMate in the United States: lessons for the future of gene drive mosquito control. <i>Pathogens and Global Health</i> , 2021, 115, 365-376.	2.3	16
76	Beyond the eye: Kynurenine pathway impairment causes midgut homeostasis dysfunction and survival and reproductive costs in blood-feeding mosquitoes. <i>Insect Biochemistry and Molecular Biology</i> , 2022, 142, 103720.	2.7	15
77	Maternal Germline-Specific Genes in the Asian Malaria Mosquito <i>Anopheles stephensi</i> : Characterization and Application for Disease Control. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 157-166.	1.8	14
78	Aed a 4: A New 67-kDa <i>Aedes aegypti</i> Mosquito Salivary Allergen for the Diagnosis of Mosquito Allergy. <i>International Archives of Allergy and Immunology</i> , 2016, 170, 206-210.	2.1	14
79	High-resolution <i>in situ</i> analysis of Cas9 germline transcript distributions in gene-drive <i>Anopheles</i> mosquitoes. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	14
80	Application of the Relationship-Based Model to Engagement for Field Trials of Genetically Engineered Malaria Vectors. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, , .	1.4	13
81	Probing functional polymorphisms in the dengue vector, <i>Aedes aegypti</i> . <i>BMC Genomics</i> , 2013, 14, 739.	2.8	12
82	Bridging the gaps in vector biology. <i>EMBO Reports</i> , 2006, 7, 259-262.	4.5	11
83	nanos-Driven expression of piggyBac transposase induces mobilization of a synthetic autonomous transposon in the malaria vector mosquito, <i>Anopheles stephensi</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2017, 87, 81-89.	2.7	11
84	Present and Future Control of Malaria. <i>Science</i> , 2001, 291, 435c-436.	12.6	11
85	Transcriptome Sequencing and Developmental Regulation of Gene Expression in <i>Anopheles aquasalis</i> . <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3005.	3.0	9
86	Endogenously-expressed NH2-terminus of circumsporozoite protein interferes with sporozoite invasion of mosquito salivary glands. <i>Malaria Journal</i> , 2016, 15, 153.	2.3	9
87	The Lethal(2)-Essential-for-Life [L(2)EFL] Gene Family Modulates Dengue Virus Infection in <i>Aedes aegypti</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 7520.	4.1	9
88	Population modification strategies for malaria vector control are uniquely resilient to observed levels of gene drive resistance alleles. <i>BioEssays</i> , 2021, 43, 2000282.	2.5	9
89	Ethical Considerations for Gene Drive: Challenges of Balancing Inclusion, Power and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 826727.	4.1	9
90	Injection of <i>An. stephensi</i> Embryos to Generate Malaria-resistant Mosquitoes. <i>Journal of Visualized Experiments</i> , 2007, , 216.	0.3	8

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91	Preventing the Spread of Malaria and Dengue Fever Using Genetically Modified Mosquitoes. Journal of Visualized Experiments, 2007, , 231.	0.3	8
92	Digital droplet PCR and IDAA for the detection of CRISPR indel edits in the malaria species <i>Anopheles stephensi</i> . BioTechniques, 2020, 68, 172-179.	1.8	8
93	Cas9-mediated maternal effect and derived resistance alleles in a gene-drive strain of the African malaria vector mosquito, <i>Anopheles gambiae</i> . Genetics, 2022, , .	2.9	8
94	Interspecific mating bias may drive <i>Aedes albopictus</i> displacement of <i>Aedes aegypti</i> during its range expansion. , 2022, 1, .		7
95	Protein phosphorylation during Plasmodium berghei gametogenesis. Experimental Parasitology, 2015, 156, 49-60.	1.2	6
96	Selection and Utility of Single Nucleotide Polymorphism Markers to Reveal Fine-Scale Population Structure in Human Malaria Parasite Plasmodium falciparum. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	5
97	Evaluation of drive mechanisms (including transgenes and drivers) in different environmental conditions and genetic backgrounds. , 0, , 149-155.		5
98	Lys48 ubiquitination during the intraerythrocytic cycle of the rodent malaria parasite, Plasmodium chabaudi. PLoS ONE, 2017, 12, e0176533.	2.5	4
99	The AalNix3&4 isoform is required and sufficient to convert Aedes albopictus females into males. PLoS Genetics, 2022, 18, e1010280.	3.5	4
100	Protein synthesis induced by heat in an Ixodes tick. Insect Biochemistry, 1989, 19, 731-736.	1.8	3
101	Genetic engineering of malaria parasite resistance in vector mosquitoes. Entomological Research, 2008, 38, 24-33.	1.1	2
102	Impact of Genetic Modification of Vector Populations on the Malaria Eradication Agenda. , 2016, , 423-444.		2
103	Microinjection Method for <i>Anopheles gambiae</i> Embryos. Journal of Visualized Experiments, 2021, , .	0.3	2
104	Site-Directed Φ C31-Mediated Integration and Cassette Exchange in <i>Anopheles</i> Vectors of Malaria. Journal of Visualized Experiments, 2021, , .	0.3	1
105	Digital-Droplet PCR to Detect Indels Mutations in Genetically Modified Anopheline Mosquito Populations. Journal of Visualized Experiments, 2021, , .	0.3	1
106	Development of novel, genetics-based control methods for blocking transmission of mosquito-borne pathogens. Medical Entomology and Zoology, 2003, 54, 18.	0.1	0
107	OnlineEarly Announcement. Insect Molecular Biology, 2005, 14, 1-1.	2.0	0
108	Suitable material for publication in Insect Molecular Biology. Insect Molecular Biology, 2005, 14, 111-111.	2.0	0

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109	Changes to Insect Molecular Biology Editorial Board. <i>Insect Molecular Biology</i> , 2005, 14, 573-573.	2.0	0
110	Genetic approaches in <i>Aedes aegypti</i> for control of dengue: . , 0, , 77-87.		0
111	Small-Cage Laboratory Trials of Genetically-Engineered Anopheline Mosquitoes. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
112	Vector-Borne Diseases in the 21st Century: Counting Up or Counting Down?. , 2010, , 27-35.		0
113	The Transcriptome of Human Malaria Vectors. , 0, , 516-530.		0
114	What are relevant assays for refractoriness?. , 0, , 165-170.		0