Zhiyong Xi

List of Publications by Citations

64	6,352	32	70
papers	citations	h-index	g-index
70	7,836	8.2	5.62
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
64	Genome sequence of Aedes aegypti, a major arbovirus vector. *Science*, **2007**, 316, 1718-23	33.3	867
63	The Aedes aegypti toll pathway controls dengue virus infection. *PLoS Pathogens*, **2008**, 4, e1000098	7.6	578
62	The endosymbiotic bacterium Wolbachia induces resistance to dengue virus in Aedes aegypti. *PLoS Pathogens*, **2010**, 6, e1000833	7.6	487
61	Evolutionary dynamics of immune-related genes and pathways in disease-vector mosquitoes. *Science*, **2007**, 316, 1738-43	33.3	461
60	Wolbachia induces reactive oxygen species (ROS)-dependent activation of the Toll pathway to control dengue virus in the mosquito Aedes aegypti. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E23-31	11.5	360
59	Wolbachia establishment and invasion in an Aedes aegypti laboratory population. *Science*, **2005**, 310, 326-8	33.3	355
58	Genome-wide analysis of the interaction between the endosymbiotic bacterium Wolbachia and its Drosophila host. *BMC Genomics*, **2008**, 9, 1	4.5	345
57	Anopheles gambiae immune responses to human and rodent Plasmodium parasite species. *PLoS Pathogens*, **2006**, 2, e52	7.6	329
56	Wolbachia invades Anopheles stephensi populations and induces refractoriness to Plasmodium infection. *Science*, **2013**, 340, 748-51	33.3	307
55	Incompatible and sterile insect techniques combined eliminate mosquitoes. *Nature*, **2019**, 572, 56-61	50.4	228
54	Harnessing mosquito-Wolbachia symbiosis for vector and disease control. *Acta Tropica*, **2014**, 132 Suppl, S150-63	3.2	221
53	Wolbachia induces density-dependent inhibition to dengue virus in mosquito cells. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1754	4.8	182
52	Gut symbiont enhances insecticide resistance in a significant pest, the oriental fruit fly Bactrocera dorsalis (Hendel). *Microbiome*, **2017**, 5, 13	16.6	159
51	Combining the sterile insect technique with the incompatible insect technique: I-impact of wolbachia infection on the fitness of triple- and double-infected strains of Aedes albopictus. *PLoS ONE*, **2015**, 10, e0121126	3.7	89
50	Generation of a novel Wolbachia infection in Aedes albopictus (Asian tiger mosquito) via embryonic microinjection. *Insect Biochemistry and Molecular Biology*, **2005**, 35, 903-10	4.5	80
49	Mutual exclusion of Asaia and Wolbachia in the reproductive organs of mosquito vectors. *Parasites and Vectors*, **2015**, 8, 278	4	77
48	Combining the Sterile Insect Technique with Wolbachia-Based Approaches: II--A Safer Approach to Aedes albopictus Population Suppression Programmes, Designed to Minimize the Consequences of Inadvertent Female Release. *PLoS ONE*, **2015**, 10, e0135194	3.7	69

47	Transcriptome analysis of Aedes aegypti transgenic mosquitoes with altered immunity. *PLoS Pathogens*, **2011**, 7, e1002394	7.6	69
46	Combining the Sterile Insect Technique with the Incompatible Insect Technique: III-Robust Mating Competitiveness of Irradiated Triple Wolbachia-Infected Aedes albopictus Males under Semi-Field Conditions. *PLoS ONE*, **2016**, 11, e0151864	3.7	65
45	Replacing a native Wolbachia with a novel strain results in an increase in endosymbiont load and resistance to dengue virus in a mosquito vector. *PLoS Neglected Tropical Diseases*, **2013**, 7, e2250	4.8	63
44	Interspecific transfer of Wolbachia into the mosquito disease vector Aedes albopictus. *Proceedings of the Royal Society B: Biological Sciences*, **2006**, 273, 1317-22	4.4	63
43	The bacterium Wolbachia exploits host innate immunity to establish a symbiotic relationship with the dengue vector mosquito Aedes aegypti. *ISME Journal*, **2018**, 12, 277-288	11.9	60
42	Mosquito infection responses to developing filarial worms. *PLoS Neglected Tropical Diseases*, **2009**, 3, e529	4.8	53
41	Gene discovery in an invasive tephritid model pest species, the Mediterranean fruit fly, Ceratitis capitata. *BMC Genomics*, **2008**, 9, 243	4.5	53
40	Transcriptome profiling of sexual maturation and mating in the Mediterranean fruit fly, Ceratitis capitata. *PLoS ONE*, **2012**, 7, e30857	3.7	53
39	Immunoglobulin superfamily members play an important role in the mosquito immune system. *Developmental and Comparative Immunology*, **2008**, 32, 519-31	3.2	47
38	Wolbachia supplement biotin and riboflavin to enhance reproduction in planthoppers. *ISME Journal* , **2020**, 14, 676-687	11.9	43
37	A G-protein-coupled receptor regulation pathway in cytochrome P450-mediated permethrin-resistance in mosquitoes, Culex quinquefasciatus. *Scientific Reports*, **2015**, 5, 17772	4.9	42
36	Developmental and hormonal regulation of juvenile hormone esterase gene in Drosophila melanogaster. *Journal of Insect Physiology*, **2005**, 51, 393-400	2.4	42
35	Wolbachia strain wAlbB confers both fitness costs and benefit on Anopheles stephensi. *Parasites and Vectors*, **2014**, 7, 336	4	38
34	Characterization of Wolbachia transfection efficiency by using microinjection of embryonic cytoplasm and embryo homogenate. *Applied and Environmental Microbiology*, **2005**, 71, 3199-204	4.8	36
33	Response of the mosquito protein interaction network to dengue infection. *BMC Genomics*, **2010**, 11, 380	4.5	35
32	The threshold infection level for Wolbachia invasion in random environments. *Journal of Differential Equations*, **2019**, 266, 4377-4393	2.1	31
31	Stable Introduction of Plant-Virus-Inhibiting Wolbachia into Planthoppers for Rice Protection. *Current Biology*, **2020**, 30, 4837-4845.e5	6.3	27
30	Genome-wide SNPs reveal the drivers of gene flow in an urban population of the Asian Tiger Mosquito, Aedes albopictus. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0006009	4.8	25

29	The Maternally Inheritable AlbB Induces Refractoriness to in. *Frontiers in Microbiology*, **2017**, 8, 366	5.7	25
28	Intestinal probiotics restore the ecological fitness decline of by irradiation. *Evolutionary Applications*, **2018**, 11, 1946-1963	4.8	25
27	Protocol for dengue infections in mosquitoes (A. aegypti) and infection phenotype determination. *Journal of Visualized Experiments*, **2007**, 220	1.6	23
26	The annual abundance of dengue and Zika vector Aedes albopictus and its stubbornness to suppression. *Ecological Modelling*, **2018**, 387, 38-48	3	22
25	Establishment of a medium-scale mosquito facility: tests on mass production cages for Aedes albopictus (Diptera: Culicidae). *Parasites and Vectors*, **2018**, 11, 189	4	21
24	Persistent Infection by AlbB Has No Effect on Composition of the Gut Microbiota in Adult Female. *Frontiers in Microbiology*, **2016**, 7, 1485	5.7	18
23	Aedes aegypti lines for combined sterile insect technique and incompatible insect technique applications: the importance of host genomic background. *Entomologia Experimentalis Et Applicata*, **2020**, 168, 560-572	2.1	17
22	Establishment of a medium-scale mosquito facility: optimization of the larval mass-rearing unit for Aedes albopictus (Diptera: Culicidae). *Parasites and Vectors*, **2017**, 10, 569	4	17
21	miRNA-1-3p is an early embryonic male sex-determining factor in the Oriental fruit fly Bactrocera dorsalis. *Nature Communications*, **2020**, 11, 932	17.4	15
20	Genes important for survival or reproduction in Varroa destructor identified by RNAi. *Insect Science*, **2019**, 26, 68-75	3.6	15
19	Functional genomics studies on the innate immunity of disease vectors. *Insect Science*, **2008**, 15, 15-27	3.6	14
18	Use of age-stage structural models to seek optimal Wolbachia-infected male mosquito releases for mosquito-borne disease control. *Journal of Theoretical Biology*, **2019**, 472, 95-109	2.3	12
17	Identification and molecular characterization of Wolbachia strains in natural populations of Aedes albopictus in China. *Parasites and Vectors*, **2020**, 13, 28	4	12
16	Inhibits Binding of Dengue and Zika Viruses to Mosquito Cells. *Frontiers in Microbiology*, **2020**, 11, 1750	5.7	9
15	Toward implementation of combined incompatible and sterile insect techniques for mosquito control: Optimized chilling conditions for handling Aedes albopictus male adults prior to release. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008561	4.8	8
14	Releasing incompatible males drives strong suppression across populations of wild and -carrying in Australia. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
13	Inter-Strain Competition and Inhibition of Expression of Cytoplasmic Incompatibility in Mosquito. *Frontiers in Microbiology*, **2020**, 11, 1638	5.7	6
12	Genetic Control of Malaria and Dengue Using Wolbachia **2016**, 305-333		6

List of Publications

11	Water-induced strong protection against acute exposure to low subzero temperature of adult Aedes albopictus. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007139	4.8	5
10	Stable Establishment of spp. in the Brown Planthopper Nilaparvata lugens despite Decreased Host Fitness. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	5
9	Reply to: Issues with combining incompatible and sterile insect techniques. *Nature*, **2021**, 590, E3-E5	50.4	5
8	Pilot trial using mass field-releases of sterile males produced with the incompatible and sterile insect techniques as part of integrated Aedes aegypti control in Mexico.. *PLoS Neglected Tropical Diseases*, **2022**, 16, e0010324	4.8	5
7	Newly introduced Cardinium endosymbiont reduces microbial diversity in the rice brown planthopper Nilaparvata lugens. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	4
6	Wolbachia-Mediated Immunity Induction in Mosquito Vectors **2017**, 35-58		3
5	Protocol for Plasmodium falciparum infections in mosquitoes and infection phenotype determination. *Journal of Visualized Experiments*, **2007**, 222	1.6	3
4	Abundance and Seasonality of Aedes aegypti (Diptera: Culicidae) in Two Suburban Localities of South Mexico, With Implications for Wolbachia (Rickettsiales: Rickettsiaceae)-Carrying Male Releases for Population Suppression. *Journal of Medical Entomology*, **2021**, 58, 1817-1825	2.2	3
3	Microbes increase thermal sensitivity in the mosquito Aedes aegypti, with the potential to change disease distributions. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009548	4.8	3
2	Quality control of long-term mass-reared Aedes albopictus for population suppression. *Journal of Pest Science*, **2021**, 94, 1531-1542	5.5	2
1	Lab-scale characterization and semi-field trials of Wolbachia Strain wAlbB in a Taiwan Wolbachia introgressed Ae. aegypti strain.. *PLoS Neglected Tropical Diseases*, **2022**, 16, e0010084	4.8	1