Gonzalo M Vazquez-Prokopec

List of Publications by Citations

112 papers	3,533 citations	35 h-index	56 g-index
122 ext. papers	4,281 ext. citations	4.5 avg, IF	5.05 L-index

#	Paper	IF	Citations
112	The role of human movement in the transmission of vector-borne pathogens. *PLoS Neglected Tropical Diseases*, **2009**, 3, e481	4.8	339
111	House-to-house human movement drives dengue virus transmission. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 994-9	11.5	319
110	A new, cost-effective, battery-powered aspirator for adult mosquito collections. *Journal of Medical Entomology*, **2009**, 46, 1256-9	2.2	144
109	Using GPS technology to quantify human mobility, dynamic contacts and infectious disease dynamics in a resource-poor urban environment. *PLoS ONE*, **2013**, 8, e58802	3.7	135
108	Quantifying the spatial dimension of dengue virus epidemic spread within a tropical urban environment. *PLoS Neglected Tropical Diseases*, **2010**, 4, e920	4.8	134
107	Usefulness of commercially available GPS data-loggers for tracking human movement and exposure to dengue virus. *International Journal of Health Geographics*, **2009**, 8, 68	3.5	94
106	The macroecology of infectious diseases: a new perspective on global-scale drivers of pathogen distributions and impacts. *Ecology Letters*, **2016**, 19, 1159-71	10	93
105	Time-varying, serotype-specific force of infection of dengue virus. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E2694-702	11.5	87
104	Active dispersal of natural populations of Triatoma infestans (Hemiptera: Reduviidae) in rural northwestern Argentina. *Journal of Medical Entomology*, **2004**, 41, 614-21	2.2	81
103	Spatial variation of insecticide resistance in the dengue vector Aedes aegypti presents unique vector control challenges. *Parasites and Vectors*, **2016**, 9, 67	4	74
102	Reinfestation sources for Chagas disease vector, Triatoma infestans, Argentina. *Emerging Infectious Diseases*, **2006**, 12, 1096-102	10.2	73
101	Combining contact tracing with targeted indoor residual spraying significantly reduces dengue transmission. *Science Advances*, **2017**, 3, e1602024	14.3	71
100	Hidden sylvatic foci of the main vector of Chagas disease Triatoma infestans: threats to the vector elimination campaign?. *PLoS Neglected Tropical Diseases*, **2011**, 5, e1365	4.8	67
99	Contributions from the silent majority dominate dengue virus transmission. *PLoS Pathogens*, **2018**, 14, e1006965	7.6	66
98	Combined sewage overflow enhances oviposition of Culex quinquefasciatus (Diptera: Culicidae) in urban areas. *Journal of Medical Entomology*, **2009**, 46, 220-6	2.2	59
97	Unforeseen costs of cutting mosquito surveillance budgets. *PLoS Neglected Tropical Diseases*, **2010**, 4, e858	4.8	55
96	Quantifying the Epidemiological Impact of Vector Control on Dengue. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004588	4.8	53

95	Spatio-temporal analysis of reinfestation by Triatoma infestans (Hemiptera: Reduviidae) following insecticide spraying in a rural community in northwestern Argentina. *American Journal of Tropical Medicine and Hygiene*, **2004**, 71, 803-10	3.2	52
94	Diet and density dependent competition affect larval performance and oviposition site selection in the mosquito species Aedes albopictus (Diptera: Culicidae). *Parasites and Vectors*, **2012**, 5, 225	4	51
93	Cost-effectiveness of chagas disease vector control strategies in Northwestern Argentina. *PLoS Neglected Tropical Diseases*, **2009**, 3, e363	4.8	51
92	Spatial analysis spotlighting early childhood leprosy transmission in a hyperendemic municipality of the Brazilian Amazon region. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2665	4.8	47
91	Comparative trial of effectiveness of pyrethroid insecticides against peridomestic populations of Triatoma infestans in northwestern Argentina. *Journal of Medical Entomology*, **2006**, 43, 902-9	2.2	45
90	Domestic animal hosts strongly influence human-feeding rates of the Chagas disease vector Triatoma infestans in Argentina. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2894	4.8	43
89	Strengths and weaknesses of Global Positioning System (GPS) data-loggers and semi-structured interviews for capturing fine-scale human mobility: findings from Iquitos, Peru. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2888	4.8	41
88	Shifting patterns of Aedes aegypti fine scale spatial clustering in Iquitos, Peru. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3038	4.8	41
87	Patterns of geographic expansion of Aedes aegypti in the Peruvian Amazon. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3033	4.8	40
86	Theory and data for simulating fine-scale human movement in an urban environment. *Journal of the Royal Society Interface*, **2014**, 11,	4.1	40
85	The risk of West Nile Virus infection is associated with combined sewer overflow streams in urban Atlanta, Georgia, USA. *Environmental Health Perspectives*, **2010**, 118, 1382-8	8.4	40
84	Upscale or downscale: applications of fine scale remotely sensed data to Chagas disease in Argentina and schistosomiasis in Kenya. *Geospatial Health*, **2006**, 1, 49-58	2.2	40
83	Assessing and maximizing the acceptability of global positioning system device use for studying the role of human movement in dengue virus transmission in Iquitos, Peru. *American Journal of Tropical Medicine and Hygiene*, **2010**, 82, 723-30	3.2	39
82	Indoor Resting Behavior of Aedes aegypti (Diptera: Culicidae) in Acapulco, Mexico. *Journal of Medical Entomology*, **2017**, 54, 501-504	2.2	38
81	Use of insecticide-treated house screens to reduce infestations of dengue virus vectors, Mexico. *Emerging Infectious Diseases*, **2015**, 21, 308-11	10.2	37
80	Deltamethrin resistance in Aedes aegypti results in treatment failure in Merida, Mexico. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005656	4.8	37
79	Spatiotemporal patterns of reinfestation by Triatoma guasayana (Hemiptera: Reduviidae) in a rural community of northwestern Argentina. *Journal of Medical Entomology*, **2005**, 42, 571-81	2.2	35
78	Spatio-temporal coherence of dengue, chikungunya and Zika outbreaks in Merida, Mexico. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006298	4.8	35

77	A PROSPECTIVE STUDY OF THE EFFECTS OF SUSTAINED VECTOR SURVEILLANCE FOLLOWING COMMUNITY-WIDE INSECTICIDE APPLICATION ON TRYPANOSOMA CRUZI INFECTION OF DOGS AND CATS IN RURAL NORTHWESTERN ARGENTINA. *American Journal of Tropical Medicine and Hygiene*, **2006**, 75, 753-761	3.2	35
76	Spatial epidemiology and serologic cohorts increase the early detection of leprosy. *BMC Infectious Diseases*, **2015**, 15, 527	4	34
75	Long-lasting insecticide-treated house screens and targeted treatment of productive breeding-sites for dengue vector control in Acapulco, Mexico. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2015**, 109, 106-15	2	34
74	Comparative Trial of Effectiveness of Pyrethroid Insecticides Against Peridomestic Populations ofTriatoma infestansin Northwestern Argentina. *Journal of Medical Entomology*, **2006**, 43, 902-909	2.2	34
73	Improved chemical control of Chagas disease vectors in the dry Chaco region. *Journal of Medical Entomology*, **2013**, 50, 394-403	2.2	33
72	Forecasting the effectiveness of indoor residual spraying for reducing dengue burden. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006570	4.8	31
71	Coupled Heterogeneities and Their Impact on Parasite Transmission and Control. *Trends in Parasitology*, **2016**, 32, 356-367	6.4	29
70	Key source habitats and potential dispersal of triatoma infestans populations in Northwestern Argentina: implications for vector control. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3238	4.8	28
69	Experimental evaluation of the impact of household aerosolized insecticides on pyrethroid resistant Aedes aegypti. *Scientific Reports*, **2018**, 8, 12535	4.9	27
68	Global positioning system data-loggers: a tool to quantify fine-scale movement of domestic animals to evaluate potential for zoonotic transmission to an endangered wildlife population. *PLoS ONE*, **2014**, 9, e110984	3.7	25
67	River boats contribute to the regional spread of the dengue vector Aedes aegypti in the Peruvian Amazon. *PLoS Neglected Tropical Diseases*, **2015**, 9, e0003648	4.8	24
66	Calling in sick: impacts of fever on intra-urban human mobility. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283,	4.4	24
65	A prospective study of the effects of sustained vector surveillance following community-wide insecticide application on Trypanosoma cruzi infection of dogs and cats in rural Northwestern Argentina. *American Journal of Tropical Medicine and Hygiene*, **2006**, 75, 753-61	3.2	21
64	Efficacy of novel indoor residual spraying methods targeting pyrethroid-resistant Aedes aegypti within experimental houses. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007203	4.8	20
63	Lack of evidence for Zika virus transmission by Culex mosquitoes. *Emerging Microbes and Infections*, **2017**, 6, e90	18.9	20
62	Spatial heterogeneity and risk maps of community infestation by Triatoma infestans in rural northwestern Argentina. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1788	4.8	20
61	House screening with insecticide-treated netting provides sustained reductions in domestic populations of Aedes aegypti in Merida, Mexico. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006283	4.8	20
60	Restoration of pyrethroid susceptibility in a highly resistant population. *Biology Letters*, **2018**, 14,	3.6	19

59	Long term impacts of combined sewer overflow remediation on water quality and population dynamics of Culex quinquefasciatus, the main urban West Nile virus vector in Atlanta, GA. *Environmental Research*, **2014**, 129, 20-6	7.9	19
58	Evidence of vertical transmission and co-circulation of chikungunya and dengue viruses in field populations of Aedes aegypti (L.) from Guerrero, Mexico. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2016**, 110, 141-4	2	19
57	An agent-based model of dengue virus transmission shows how uncertainty about breakthrough infections influences vaccination impact projections. *PLoS Computational Biology*, **2019**, 15, e1006710	5	17
56	Epidemiology of dengue and other arboviruses in a cohort of school children and their families in Yucatan, Mexico: Baseline and first year follow-up. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006847	4.8	16
55	Estimating absolute indoor density of Aedes aegypti using removal sampling. *Parasites and Vectors*, **2019**, 12, 250	4	15
54	Detection of Zika virus in Aedes mosquitoes from Mexico. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2017**, 111, 328-331	2	14
53	Designing effective control of dengue with combined interventions. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3319-3325	11.5	13
52	Characterizing environmental suitability of Aedes albopictus (Diptera: Culicidae) in Mexico based on regional and global niche models. *Journal of Medical Entomology*, **2018**, 55, 69-77	2.2	13
51	Fine-scale spatial and temporal dynamics of kdr haplotypes in Aedes aegypti from Mexico. *Parasites and Vectors*, **2019**, 12, 20	4	12
50	Community-based surveillance and control of chagas disease vectors in remote rural areas of the Argentine Chaco: A five-year follow-up. *Acta Tropica*, **2019**, 191, 108-115	3.2	12
49	Predicting the success of an invader: Niche shift versus niche conservatism. *Ecology and Evolution*, **2019**, 9, 12658-12675	2.8	10
48	Prevention and control of Aedes transmitted infections in the post-pandemic scenario of COVID-19: challenges and opportunities for the region of the Americas. *Memorias Do Instituto Oswaldo Cruz*, **2020**, 115, e200284	2.6	10
47	Optimizing the deployment of ultra-low volume and targeted indoor residual spraying for dengue outbreak response. *PLoS Computational Biology*, **2020**, 16, e1007743	5	10
46	Dengue illness impacts daily human mobility patterns in Iquitos, Peru. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007756	4.8	9
45	Identifying urban hotspots of dengue, chikungunya, and Zika transmission in Mexico to support risk stratification efforts: a spatial analysis. *Lancet Planetary Health, The*, **2021**, 5, e277-e285	9.8	9
44	The genetic structure of Aedes aegypti populations is driven by boat traffic in the Peruvian Amazon. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007552	4.8	8
43	Estimating the impact of city-wide Aedes aegypti population control: An observational study in Iquitos, Peru. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007255	4.8	8
42	First known feeding trace of the eocene bottom-dwelling fish Notogoneus osculus and its paleontological significance. *PLoS ONE*, **2010**, 5, e10420	3.7	8

41	Changing paradigms in control: considering the spatial heterogeneity of dengue transmission. *Revista Panamericana De Salud Publica/Pan American Journal of Public Health*, **2017**, 41, e16	4.1	8
40	Evidence for Aedes aegypti (Diptera: Culicidae) Oviposition on Boats in the Peruvian Amazon. *Journal of Medical Entomology*, **2015**, 52, 726-9	2.2	6
39	CHICKEN COOPS, Triatoma dimidiata INFESTATION AND ITS INFECTION WITH Trypanosoma cruzi IN A RURAL VILLAGE OF YUCATAN, MEXICO. *Revista Do Instituto De Medicina Tropical De Sao Paulo*, **2015**, 57, 269-72	2.2	6
38	Evaluating Over-the-Counter Household Insecticide Aerosols for Rapid Vector Control of Pyrethroid-Resistant. *American Journal of Tropical Medicine and Hygiene*, **2020**, 103, 2108-2112	3.2	6
37	Dengue seroprevalence in a cohort of schoolchildren and their siblings in Yucatan, Mexico (2015-2016). *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006748	4.8	6
36	Larviciding Culex spp. (Diptera: Culicidae) Populations in Catch Basins and Its Impact on West Nile Virus Transmission in Urban Parks in Atlanta, GA. *Journal of Medical Entomology*, **2019**, 56, 222-232	2.2	5
35	Environmental stochasticity and intraspecific competition influence the population dynamics of Culex quinquefasciatus (Diptera: Culicidae). *Parasites and Vectors*, **2018**, 11, 114	4	5
34	Larval density mediates knockdown resistance to pyrethroid insecticides in adult Aedes aegypti. *Parasites and Vectors*, **2018**, 11, 282	4	5
33	The TIRS trial: protocol for a cluster randomized controlled trial assessing the efficacy of preventive targeted indoor residual spraying to reduce Aedes-borne viral illnesses in Merida, Mexico. *Trials*, **2020**, 21, 839	2.8	5
32	Insecticide-treated house screening protects against Zika-infected Aedes aegypti in Merida, Mexico. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009005	4.8	5
31	4. Insecticide-based approaches for dengue vector control. *Ecology and Control of Vector-Borne Diseases*, **2021**, 59-89		5
30	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
29	Feeding Success and Host Selection by Say Mosquitoes in Experimental Trials. *Vector-Borne and Zoonotic Diseases*, **2019**, 19, 540-548	2.4	4
28	The entomological impact of passive metofluthrin emanators against indoor Aedes aegypti: A randomized field trial. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009036	4.8	4
27	Disease-driven reduction in human mobility influences human-mosquito contacts and dengue transmission dynamics. *PLoS Computational Biology*, **2021**, 17, e1008627	5	4
26	Zika Virus Infection in Pregnant Women, Yucatan, Mexico. *Emerging Infectious Diseases*, **2019**, 25, 1452-1460	11.2	3
25	Entomological Efficacy of Aerial Ultra-Low Volume Insecticide Applications Against Aedes aegypti (Diptera: Culicidae) in Mexico. *Journal of Medical Entomology*, **2019**, 56, 1331-1337	2.2	3
24	Detection of Aedes (Stegomyia) albopictus (Skuse) in ovitraps of Mérida city, México. *Biomedica*, **2021**, 41, 153-160	0.9	3

23	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
22	Natural arbovirus infection rate and detectability of indoor female Aedes aegypti from Mérida, Yucatán, Mexico. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0008972	4.8	3
21	Pandemic-associated mobility restrictions could cause increases in dengue virus transmission. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009603	4.8	3
20	Efficacy of Long-lasting Insecticidal Nets With Declining Physical and Chemical Integrity on Aedes aegypti (Diptera: Culicidae). *Journal of Medical Entomology*, **2020**, 57, 503-510	2.2	2
19	Bioefficacy of Two Nonpyrethroid Insecticides for Targeted Indoor Residual Spraying Against Pyrethroid-Resistant. *Journal of the American Mosquito Control Association*, **2019**, 35, 291-294	0.9	2
18	The basic reproductive number for disease systems with multiple coupled heterogeneities. *Mathematical Biosciences*, **2020**, 321, 108294	3.9	2
17	Heterogeneity of Dengue Illness in Community-Based Prospective Study, Iquitos, Peru. *Emerging Infectious Diseases*, **2020**, 26, 2077-2086	10.2	2
16	Linking the vectorial capacity of multiple vectors to observed patterns of West Nile virus transmission. *Journal of Applied Ecology*, **2019**, 56, 956-965	5.8	2
15	Protective effect of house screening against indoor Aedes aegypti in Mérida, Mexico: A cluster randomised controlled trial. *Tropical Medicine and International Health*, **2021**, 26, 1677-1688	2.3	2
14	Insecticide-Treated House Screens to Reduce Infestations of Dengue Vectors **2017**,		1
13	Efficacy of targeted indoor residual spraying with the pyrrole insecticide chlorfenapyr against pyrethroid-resistant Aedes aegypti. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009822	4.8	1
12	Field Efficacy Trials of Aerial Ultra-Low-Volume Application of Insecticides Against Caged in Mexico. *Journal of the American Mosquito Control Association*, **2019**, 35, 140-146	0.9	1
11	Measuring health related quality of life for dengue patients in Iquitos, Peru. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008477	4.8	1
10	The impact of dengue illness on social distancing and caregiving behavior. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009614	4.8	
9	Optimizing the deployment of ultra-low volume and targeted indoor residual spraying for dengue outbreak response **2020**, 16, e1007743		
8	Optimizing the deployment of ultra-low volume and targeted indoor residual spraying for dengue outbreak response **2020**, 16, e1007743		
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2	Natural arbovirus infection rate and detectability of indoor female Aedes aegypti from Mérida, Yucatán, Mexico **2021**, 15, e0008972	
1	Experimental evaluation of a metofluthrin passive emanator against Aedes albopictus.. *PLoS ONE*, **2022**, 17, e0267278	3.7