Roberto Barrera

List of Publications by Year
in descending order

67 papers	2,333 citations	172207 29 h-index	233125 45 g-index
70 all docs	70 docs citations	70 times ranked	2189 citing authors

#	Article	IF	Citations
1	Population Dynamics of Aedes aegypti and Dengue as Influenced by Weather and Human Behavior in San Juan, Puerto Rico. PLoS Neglected Tropical Diseases, 2011, 5, e1378.	1.3	210
2	Unusual productivity of Aedes aegypti in septic tanks and its implications for dengue control. Medical and Veterinary Entomology, 2008, 22, 62-69.	0.7	123
3	Ecological Factors Influencing <I>Aedes aegypti</I> (Diptera: Culicidae) Productivity in Artificial Containers in Salinas, Puerto Rico. Journal of Medical Entomology, 2006, 43, 484-492.	0.9	112
4	Use of the CDC Autocidal Gravid Ovitrap to Control and Prevent Outbreaks ofAedes aegypti(Diptera: Culicidae). Journal of Medical Entomology, 2014, 51, 145-154.	0.9	106
5	An improved autocidal gravid ovitrap for the control and surveillance of Aedes aegypti. Parasites and Vectors, 2013, 6, 225.	1.0	97
6	USE OF THE PUPAL SURVEY TECHNIQUE FOR MEASURING AEDES AEGYPTI (DIPTERA: CULICIDAE) PRODUCTIVITY IN PUERTO RICO. American Journal of Tropical Medicine and Hygiene, 2006, 74, 290-302.	0.6	89
7	HABITAT SEGREGATION OF DENGUE VECTORS ALONG AN URBAN ENVIRONMENTAL GRADIENT. American Journal of Tropical Medicine and Hygiene, 2007, 76, 820-826.	0.6	84
8	Septic tanks as larval habitats for the mosquitoes Aedes aegypti and Culex quinquefasciatus in Playa-Playita, Puerto Rico. Medical and Veterinary Entomology, 2010, 24, 117-123.	0.7	77
9	Quantifying the Epidemiological Impact of Vector Control on Dengue. PLoS Neglected Tropical Diseases, 2016, 10, e0004588.	1.3	70
10	Sustained, Area-Wide Control of Aedes aegypti Using CDC Autocidal Gravid Ovitraps. American Journal of Tropical Medicine and Hygiene, 2014, 91, 1269-1276.	0.6	67
11	Meteorologically Driven Simulations of Dengue Epidemics in San Juan, PR. PLoS Neglected Tropical Diseases, 2015, 9, e0004002.	1.3	67
12	Spatial Dispersion of Adult Mosquitoes (Diptera: Culicidae) in a Sylvatic Focus of Venezuelan Equine Encephalitis Virus. Journal of Medical Entomology, 2001, 38, 813-821.	0.9	65
13	Dengue Outbreak in Mombasa City, Kenya, 2013â€“2014: Entomologic Investigations. PLoS Neglected Tropical Diseases, 2016, 10, e0004981.	1.3	55
14	Habitat segregation of dengue vectors along an urban environmental gradient. American Journal of Tropical Medicine and Hygiene, 2007, 76, 820-6.	0.6	49
15	Impact of Autocidal Gravid Ovitraps on Chikungunya Virus Incidence inAedes aegypti(Diptera:) Tj ETQq1 1 0.784314 rgBT /Ove	0.9	48
16	Arthropod Surveillance Programs: Basic Components, Strategies and Analysis. Annals of the Entomological Society of America, 2012, 105, 135-149.	1.3	47
17	Reduced Incidence of Chikungunya Virus Infection in Communities with OngoingAedes AegyptiMosquito Trap Intervention Studies â€" Salinas and Guayama, Puerto Rico, November 2015â€“February 2016. Morbidity and Mortality Weekly Report, 2016, 65, 479-480.	9.0	47
18	Vertebrate Hosts ofAedes aegyptiandAedes mediovittatus(Diptera: Culicidae) in Rural Puerto Rico. Journal of Medical Entomology, 2012, 49, 917-921.	0.9	44

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19	Comparison of Vector Competence of Aedes mediovittatus and Aedes aegypti for Dengue Virus: Implications for Dengue Control in the Caribbean. PLoS Neglected Tropical Diseases, 2015, 9, e0003462.	1.3	43
20	Use of the pupal survey technique for measuring Aedes aegypti (Diptera: Culicidae) productivity in Puerto Rico. American Journal of Tropical Medicine and Hygiene, 2006, 74, 290-302.	0.6	42
21	Dynamics of Aedes aegypti and Culex quinquefasciatus in Septic Tanks. Journal of the American Mosquito Control Association, 2009, 25, 409-416.	0.2	38
22	Spatial Stability of Adult Aedes aegypti Populations. American Journal of Tropical Medicine and Hygiene, 2011, 85, 1087-1092.	0.6	38
23	Surveillance, insecticide resistance and control of an invasive Aedes aegypti (Diptera: Culicidae) population in California. F1000Research, 2016, 5, 194.	0.8	37
24	Aedes aegypti (Diptera: Culicidae) Abundance Model Improved With Relative Humidity and Precipitation-Driven Egg Hatching. Journal of Medical Entomology, 2017, 54, 1375-1384.	0.9	36
25	An Improved Trap to Capture Adult Container-Inhabiting Mosquitoes. Journal of the American Mosquito Control Association, 2013, 29, 358-368.	0.2	34
26	First Isolation of West Nile Virus in the Caribbean. American Journal of Tropical Medicine and Hygiene, 2008, 78, 666-668.	0.6	34
27	Differences in Prevalence of Symptomatic Zika Virus Infection, by Age and Sexâ€”Puerto Rico, 2016. Journal of Infectious Diseases, 2018, 217, 1678-1689.	1.9	33
28	A comparison of mosquito densities, weather and infection rates of <scp>Aedes aegypti</scp> during the first epidemics of Chikungunya (2014) and Zika (2016) in areas with and without vector control in Puerto Rico. Medical and Veterinary Entomology, 2019, 33, 68-77.	0.7	31
29	Dispersal of female and male Aedes aegypti from discarded container habitats using a stable isotope mark-capture study design in South Texas. Scientific Reports, 2020, 10, 6803.	1.6	25
30	Impacts of Hurricanes Irma and Maria on Aedes aegypti Populations, Aquatic Habitats, and Mosquito Infections with Dengue, Chikungunya, and Zika Viruses in Puerto Rico. American Journal of Tropical Medicine and Hygiene, 2019, 100, 1413-1420.	0.6	25
31	West Nile Virus from Blood Donors, Vertebrates, and Mosquitoes, Puerto Rico, 2007. Emerging Infectious Diseases, 2009, 15, 1298-1300.	2.0	24
32	Knockdown Resistance Mutations in Aedes aegypti (Diptera: Culicidae) From Puerto Rico. Journal of Medical Entomology, 2016, 53, 1410-1414.	0.9	24
33	Autocidal gravid ovitraps protect humans from chikungunya virus infection by reducing Aedes aegypti mosquito populations. PLoS Neglected Tropical Diseases, 2019, 13, e0007538.	1.3	23
34	Integrated vector control of Aedes aegypti mosquitoes around target houses. Parasites and Vectors, 2018, 11, 88.	1.0	22
35	Mosquito Vectors of West Nile Virus During an Epizootic Outbreak in Puerto Rico. Journal of Medical Entomology, 2010, 47, 1185-1195.	0.9	21
36	Seasonal and Habitat Effects on Dengue and West Nile Virus Vectors in San Juan, Puerto Rico. Journal of the American Mosquito Control Association, 2009, 25, 38-46.	0.2	19

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37	Citywide Control of Aedes aegypti (Diptera: Culicidae) during the 2016 Zika Epidemic by Integrating Community Awareness, Education, Source Reduction, Larvicides, and Mass Mosquito Trapping. Journal of Medical Entomology, 2019, 56, 1033-1046.	0.9	19
38	Co-occurrence Patterns of the Dengue Vector Aedes aegypti and Aedes mediovitattus, a Dengue Competent Mosquito in Puerto Rico. EcoHealth, 2011, 8, 365-375.	0.9	17
39	Evaluation of Alternative Killing Agents forAedes aegypti(Diptera: Culicidae) in the GravidAedesTrap (GAT). Journal of Medical Entomology, 2016, 53, 873-879.	0.9	17
40	First isolation of West Nile virus in the Caribbean. American Journal of Tropical Medicine and Hygiene, 2008, 78, 666-8.	0.6	16
41	Sample sizes for identifying the key types of container occupied by dengue-vector pupae: the use of entropy in analyses of compositional data. Annals of Tropical Medicine and Parasitology, 2006, 100, 5-16.	1.6	15
42	Microbial Diversity of Adult Aedes aegypti and Water Collected from Different Mosquito Aquatic Habitats in Puerto Rico. Microbial Ecology, 2021, , 1.	1.4	14
43	Mosquito (Diptera: Culicidae) Bloodmeal Sources During a Period of West Nile Virus Transmission in Puerto Rico. Journal of Medical Entomology, 2011, 48, 701-704.	0.9	13
44	Rapid Screening of Aedes aegypti Mosquitoes for Susceptibility to Insecticides as Part of Zika Emergency Response, Puerto Rico. Emerging Infectious Diseases, 2019, 25, 1959-1961.	2.0	13
45	Simplified pupal surveys of Aedes aegypti (L.) for entomologic surveillance and dengue control. American Journal of Tropical Medicine and Hygiene, 2009, 81, 100-7.	0.6	12
46	Sample-size requirements for developing strategies, based on the pupal/demographic survey, for the targeted control of dengue. Annals of Tropical Medicine and Parasitology, 2006, 100, 33-43.	1.6	10
47	Genetics and Morphology of Aedes aegypti (Diptera: Culicidae) in Septic Tanks in Puerto Rico. Journal of Medical Entomology, 2011, 48, 1095-1102.	0.9	10
48	A Novel Autocidal Ovitrap for the Surveillance and Control of Aedes aegypti. Journal of the American Mosquito Control Association, 2013, 29, 293-296.	0.2	10
49	New tools for Aedes control: mass trapping. Current Opinion in Insect Science, 2022, 52, 100942.	2.2	10
50	Operational Aspects of the Centers for Disease Control and Prevention Autocidal Gravid Ovitrap. Journal of the American Mosquito Control Association, 2016, 32, 254-257.	0.2	9
51	Habitat and Density of Oviposition Opportunity Influences Aedes aegypti (Diptera: Culicidae) Flight Distance. Journal of Medical Entomology, 2017, 54, 1385-1389.	0.9	9
52	Effect of Temperature Thresholds on Modeled Aedes aegypti (Diptera: Culicidae) Population Dynamics. Journal of Medical Entomology, 2017, 54, 869-877.	0.9	8
53	Role of Abandoned and Vacant Houses on Aedes aegypti Productivity. American Journal of Tropical Medicine and Hygiene, 2021, 104, 145-150.	0.6	7
54	Evaluation of Household Bleach as an Ovicide for the Control ofAedes aegypti. Journal of the American Mosquito Control Association, 2015, 31, 77-84.	0.2	6

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55	Non-human primate antibody response to mosquito salivary proteins: Implications for dengue virus transmission in Puerto Rico. Acta Tropica, 2016, 164, 369-374.	0.9	6
56	Improving the Safety and Acceptability of Autocidal Gravid Ovitraps (AGO Traps). Journal of the American Mosquito Control Association, 2021, 37, 61-67.	0.2	6
57	Entomological Investigation of Aedes aegypti In Neighborhoods With Confirmed Human Arbovirus Infection In Puerto Rico. Journal of the American Mosquito Control Association, 2018, 34, 233-236.	0.2	5
58	Considerations for Disrupting Dengue Virus Transmission; Ecology of Aedes aegypti and Current (Nongenetic) Methods of Control. , 2016, , 103-124.		4
59	Susceptibility to Temephos and Spinosad inAedes aegypti(Diptera: Culicidae) From Puerto Rico. Journal of Medical Entomology, 2016, 53, 1211-1217.	0.9	4
60	A 70% Reduction in Mosquito Populations Does Not Require Removal of 70% of Mosquitoes. Journal of Medical Entomology, 2020, 57, 1668-1670.	0.9	4
61	Lower socioeconomic status neighborhoods in Puerto Rico have more diverse mosquito communities and higher Aedes aegypti abundance. Journal of Urban Ecology, 2021, 7, .	0.6	4
62	Multi-Year Mass-Trapping With Autocidal Gravid Ovitraps has Limited Influence on Insecticide Susceptibility in Aedes aegypti (Diptera: Culicidae) From Puerto Rico. Journal of Medical Entomology, 2022, 59, 314-319.	0.9	4
63	Examination of a Miniaturized Funnel Trap for Aedes aegypti (Diptera: Culicidae) Larval Sampling. Journal of Medical Entomology, 2010, 47, 1231-1234.	0.9	2
64	Comparing vector and human surveillance strategies to detect arbovirus transmission: A simulation study for Zika virus detection in Puerto Rico. PLoS Neglected Tropical Diseases, 2019, 13, e0007988.	1.3	2
65	Factors Modulating Captures of Gravid Aedes aegypti Females. Journal of the American Mosquito Control Association, 2020, 36, 66-73.	0.2	1
66	Cemeteries as sources of Aedes aegypti and other mosquito species in southeastern Puerto Rico. Tropical Medicine and International Health, 2022, , .	1.0	1
67	Surveillance and Control of Culex quinquefasciatus Using Autocidal Gravid Ovitraps. Journal of the American Mosquito Control Association, 2022, 38, 19-23.	0.2	0