Alex CÃ³rdoba-Aguilar

List of Publications by Year
in descending order

143 papers	3,757 citations	186265 28 h-index	168389 53 g-index
146 all docs	146 docs citations	146 times ranked	3144 citing authors

#	Article	IF	Citations
1	Phenoloxidase: a key component of the insect immune system. Entomologia Experimentalis Et Applicata, 2012, 142, 1-16.	1.4	508
2	Insect responses to heat: physiological mechanisms, evolution and ecological implications in a warming world. Biological Reviews, 2020, 95, 802-821.	10.4	252
3	Evolutionary Ecology of Odonata: A Complex Life Cycle Perspective. Annual Review of Entomology, 2012, 57, 249-265.	11.8	220
4	Wing pigmentation, immune ability, fat reserves and territorial status in males of the rubyspot damselfly, Hetaerina americana. Journal of Ethology, 2006, 24, 165-173.	0.8	123
5	The size of the red wing spot of the American rubyspot as a heightened condition-dependent ornament. Behavioral Ecology, 2008, 19, 724-732.	2.2	103
6	Sexual size dimorphism in the American rubyspot: male body size predicts male competition and mating success. Animal Behaviour, 2007, 73, 987-997.	1.9	100
7	Male copulatory sensory stimulation induces female ejection of rival sperm in a damselfly. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 779-784.	2.6	98
8	Wing pigmentation in territorial male damselflies, Calopteryx haemorrhoidalis: a possible relation to sexual selection. Animal Behaviour, 2002, 63, 759-766.	1.9	89
9	Odonata (dragonflies and damselflies) as a bridge between ecology and evolutionary genomics. Frontiers in Zoology, 2016, 13, 46.	2.0	75
10	What makes an effective Chagas disease vector? Factors underlying Trypanosoma cruzi-triatomine interactions. Acta Tropica, 2018, 183, 23-31.	2.0	75
11	Evolutionary consequences of climateâ€induced range shifts in insects. Biological Reviews, 2016, 91, 1050-1064.	10.4	63
12	Immune investment impairs growth, female reproduction and survival in the house cricket, Acheta domesticus. Journal of Insect Physiology, 2010, 56, 204-211.	2.0	61
13	Genetic divergence predicts reproductive isolation in damselflies. Journal of Evolutionary Biology, 2014, 27, 76-87.	1.7	58
14	Territorial behaviour and immunity are mediated by juvenile hormone: the physiological basis of honest signalling?. Functional Ecology, 2009, 23, 157-163.	3.6	55
15	Current immunity markers in insect ecological immunology: assumed trade-offs and methodological issues. Bulletin of Entomological Research, 2013, 103, 127-139.	1.0	55
16	The role of livestock intensification and landscape structure in maintaining tropical biodiversity. Journal of Applied Ecology, 2018, 55, 185-194.	4.0	54
17	Female reproductive decisions and parasite burden in a calopterygid damselfly (Insecta: Odonata). Animal Behaviour, 2003, 66, 81-87.	1.9	50
18	Why do bugs perish? Range size and local vulnerability traits as surrogates of Odonata extinction risk. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192645.	2.6	46

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19	Geographical, temporal and taxonomic biases in insect <scp>GBIF</scp> data on biodiversity and extinction. Ecological Entomology, 2021, 46, 718-728.	2.2	46
20	A female evolutionary response when survival is at risk: male harassment mediates early reallocation of resources to increase egg number and size. Behavioral Ecology and Sociobiology, 2009, 63, 751-763.	1.4	42
21	Immune defence mechanisms of triatomines against bacteria, viruses, fungi and parasites. Bulletin of Entomological Research, 2015, 105, 523-532.	1.0	41
22	Sperm ejection as a possible cryptic female choice mechanism in Odonata (Insecta). Physiological Entomology, 2006, 31, 146-153.	1.5	40
23	The Sicker Sex: Understanding Male Biases in Parasitic Infection, Resource Allocation and Fitness. PLoS ONE, 2013, 8, e76246.	2.5	38
24	Infection effects on feeding and territorial behaviour in a predatory insect in the wild. Animal Behaviour, 2011, 81, 1185-1194.	1.9	37
25	Climate-Induced Range Shifts and Possible Hybridisation Consequences in Insects. PLoS ONE, 2013, 8, e80531.	2.5	36
26	Tackling zoonoses in a crowded world: Lessons to be learned from the COVID-19 pandemic. Acta Tropica, 2021, 214, 105780.	2.0	35
27	The cost of being a killerâ€™s accomplice: Trypanosoma cruzi impairs the fitness of kissing bugs. Parasitology Research, 2019, 118, 2523-2529.	1.6	33
28	The effects of food shortage during larval development on adult body size, body mass, physiology and developmental time in a tropical damselfly. Journal of Insect Physiology, 2012, 58, 318-326.	2.0	32
29	Towards Global Volunteer Monitoring of Odonate Abundance. BioScience, 2020, 70, 914-923.	4.9	32
30	Sexual selection in Hetaerina titia males: a possible key species to understand the evolution of pigmentation in calopterygid damselflies (Odonata: Zygoptera). Behaviour, 2007, 144, 931-952.	0.8	29
31	Rapid evolution of prezygotic barriers in non-territorial damselflies. Biological Journal of the Linnean Society, 2014, 113, 485-496.	1.6	29
32	Occurrence and duration of post-copulatory mate guarding in a spider with last sperm precedence. Behaviour, 2010, 147, 1267-1283.	0.8	25
33	Suitability of internal transcribed spacers (ITS) as markers for the population genetic structure of Blastocystis spp. Parasites and Vectors, 2014, 7, 461.	2.5	25
34	Bacterial symbionts in human blood-feeding arthropods: Patterns, general mechanisms and effects of global ecological changes. Acta Tropica, 2018, 186, 69-101.	2.0	25
35	Seasonal variation in genital and body size, sperm displacement ability, female mating rate, and male harassment in two calopterygid damselflies (Odonata: Calopterygidae). Biological Journal of the Linnean Society, 0, 96, 815-829.	1.6	24
36	Allometry of a sexual trait in relation to diet experience and alternative mating tactics in two rubyspot damselflies (Calopterygidae:Hetaerina). Biological Journal of the Linnean Society, 2013, 108, 521-533.	1.6	24

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37	Zombie bugs? Manipulation of kissing bug behavior by the parasite Trypanosoma cruzi. Acta Tropica, 2019, 200, 105177.	2.0	24
38	Mating success and energetic condition effects driven by terminal investment in territorial males of a shortâ€lived invertebrate. Functional Ecology, 2013, 27, 739-747.	3.6	23
39	An assessment of marking techniques for odonates in the family Calopterygidae. Entomologia Experimentalis Et Applicata, 2011, 141, 258-261.	1.4	22
40	SUPPORT FOR THE IMMUNOCOMPETENCE HANDICAP HYPOTHESIS IN THE WILD: HORMONAL MANIPULATION DECREASES SURVIVAL IN SICK DAMSELFLIES. Evolution; International Journal of Organic Evolution, 2012, 66, 3294-3301.	2.3	22
41	Activity of the prophenoloxidase system and survival of triatomines infected with different Trypanosoma cruzi strains under different temperatures: understanding Chagas disease in the face of climate change. Parasites and Vectors, 2019, 12, 219.	2.5	22
42	Male dimorphism, territoriality and mating success in the tropical damselfly, Paraphlebia zoe Selys (Odonata: Megapodagrionidae). Evolutionary Ecology, 2009, 23, 699-709.	1.2	21
43	Origin, evolution and function of the hemipteran perimicrovillar membrane with emphasis on Reduviidae that transmit Chagas disease. Bulletin of Entomological Research, 2016, 106, 279-291.	1.0	21
44	Juvenile hormone favors sexually-selected traits but impairs fat reserves and abdomen mass in males and females. Evolutionary Ecology, 2011, 25, 845-856.	1.2	20
45	Survival and immune response of the Chagas vector Meccus pallidipennis (Hemiptera: Reduviidae) against two entomopathogenic fungi, Metarhizium anisopliae and Isaria fumosorosea. Parasites and Vectors, 2016, 9, 176.	2.5	20
46	Can dragonfly and damselfly communities be used as bioindicators of land use intensification?. Ecological Indicators, 2019, 107, 105553.	6.3	20
47	A reduction in ecological niche for Trypanosoma cruzi-infected triatomine bugs. Parasites and Vectors, 2019, 12, 240.	2.5	20
48	Wing Colour Properties do not Reflect Male Condition in the American Rubyspot (<i>Hetaerina) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.1	19
49	Copulatory behavior in a pholcid spider: males use specialized genitalic movements for sperm removal and copulatory courtship. Die Naturwissenschaften, 2013, 100, 407-416.	1.6	19
50	Hybridization rate and climate change: are endangered species at risk?. Journal of Insect Conservation, 2014, 18, 295-305.	1.4	19
51	Maintenance of polymorphic females: do parasites play a role?. Oecologia, 2013, 171, 105-113.	2.0	18
52	Follow up of natural infection with Trypanosoma cruzi in two mammals species, Nasua narica and Procyon lotor (Carnivora: Procyonidae): evidence of infection control?. Parasites and Vectors, 2014, 7, 405.	2.5	18
53	Damselfly (Odonata: Calopterygidae) Population Decline in an Urbanizing Watershed. Journal of Insect Science, 2019, 19, .	1.5	17
54	Chagas bugs and trypanosoma cruzi: Puppets and puppeteer?. Acta Tropica, 2020, 211, 105600.	2.0	17

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55	Title is missing!. Journal of Insect Behavior, 2003, 16, 153-167.	0.7	16
56	Relationships between altitude, triatomine (Triatoma dimidiata) immune response and virulence of Trypanosoma cruzi, the causal agent of Chagas' disease. Medical and Veterinary Entomology, 2017, 31, 63-71.	1.5	16
57	Effects of Trypanosoma cruzi on the phenoloxidase and prophenoloxidase activity in the vector Meccus pallidipennis (Hemiptera: Reduviidae). Parasites and Vectors, 2018, 11, 434.	2.5	16
58	Cryptic female choice and sexual conflict. , 2008, , 189-202.		16
59	Seasonal changes in body size, sexual size dimorphism and sex ratio in relation to mating system in an adult odonate community. Evolutionary Ecology, 2011, 25, 59-75.	1.2	15
60	A Mismatch between the Perceived Fighting Signal and Fighting Ability Reveals Survival and Physiological Costs for Bearers. PLoS ONE, 2014, 9, e84571.	2.5	15
61	Spatial and temporal effects of land use change as potential drivers of odonate community composition but not species richness. Biodiversity and Conservation, 2019, 28, 451-466.	2.6	15
62	Spatial and temporal population differences in male density and condition in the American rubyspot, Hetaerina americana (Insecta: Calopterygidae). Ecological Research, 2009, 24, 21-29.	1.5	14
63	Dung Beetle Body Condition: A Tool for Disturbance Evaluation in Contaminated Pastures. Environmental Toxicology and Chemistry, 2019, 38, 2392-2404.	4.3	14
64	The larger the damselfly, the more likely to be threatened: a sexual selection approach. Journal of Insect Conservation, 2019, 23, 535-545.	1.4	14
65	Native fish, Cichlasoma istlanum, hide for longer, move and eat less in the presence of a non-native fish, Amatitlania nigrofasciata. Environmental Biology of Fishes, 2018, 101, 1077-1082.	1.0	13
66	Genetic Variance and Genotype-by-Environment Interaction of Immune Response inAedes aegypti(Diptera: Culicidae). Journal of Medical Entomology, 2010, 47, 111-120.	1.8	12
67	Is Survival After Pathogen Exposure Explained by Host's Immune Strength? A Test with Two Species of White Grubs (Coleoptera: Scarabaeidae) Exposed to Fungal Infection. Environmental Entomology, 2012, 41, 959-965.	1.4	12
68	Condition dependence and trade-offs of sexual versus non-sexual traits in an insect. Journal of Ethology, 2013, 31, 275-284.	0.8	12
69	The Behavioral and Physiological Ecology of Adult Rubyspot Damselflies (Hetaerina, Calopterygidae,) Tj ETQq1 1 0.784314 rgBT /Over	1.6	12
70	Female choice for sick males over healthy males: Consequences for offspring. Ethology, 2019, 125, 241-249.	1.1	12
71	Genetic Variance and Genotype-by-Environment Interaction of Immune Response in <I>Aedes aegypti</I> (Diptera: Culicidae). Journal of Medical Entomology, 2010, 47, 111-120.	1.8	11
72	Reproductive activities impair immunocompetence in Physocyclus dugesi (Araneae: Pholcidae). Journal of Arachnology, 2012, 40, 18-22.	0.5	11

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73	The development of sexual differences in body size in Odonata in relation to mating systems. European Journal of Entomology, 2007, 104, 453-458.	1.2	11
74	An examination of competitive gametic isolation mechanisms between the damselfliesIschnura graellsiiandI. elegans. International Journal of Odonatology, 2013, 16, 259-267.	0.5	10
75	New Entamoeba group in howler monkeys (Alouatta spp.) associated with parasites of reptiles. Parasitology Research, 2017, 116, 2341-2346.	1.6	10
76	Insect thermal limits in warm and perturbed habitats: Dragonflies and damselflies as study cases. Journal of Thermal Biology, 2022, 103, 103164.	2.5	10
77	Environment, taxonomy and morphology constrain insect thermal physiology along tropical mountains. Functional Ecology, 2022, 36, 1924-1935.	3.6	10
78	Isometric patterns for male genital allometry in four damselfly species. Acta Ethologica, 2014, 17, 47-52.	0.9	9
79	Does allometry of a sexually selected ornamental trait vary with sexual selection intensity? A multiâ€•species test in damselflies. Ecological Entomology, 2014, 39, 399-403.	2.2	9
80	To be or not to be? Mating success and survival tradeâ€•offs when switching between alternative reproductive tactics. Journal of Evolutionary Biology, 2015, 28, 2119-2124.	1.7	9
81	Patterns of Sperm Transfer Behavior in a Pholcid Spider with Two Distinct Copulatory Phases. Journal of Insect Behavior, 2018, 31, 616-628.	0.7	9
82	Malnutrition and parasitism shape ecosystem services provided by dung beetles. Ecological Indicators, 2021, 121, 107205.	6.3	9
83	Sexual size dimorphism: patterns and processes. , 2008, , 231-248.		9
84	Dragon colors: the nature and function of Odonata (dragonfly and damselfly) coloration. Journal of Zoology, 2022, 317, 1-9.	1.7	9
85	A Test of Genital Allometry Using Two Damselfly Species does not Produce Hypoallometric Patterns. Ethology, 2012, 118, 203-213.	1.1	8
86	Effect of juvenile hormone on senescence in males with terminal investment. Journal of Evolutionary Biology, 2013, 26, 2458-2466.	1.7	8
87	Body Size and Morph as Drivers of Copulation Duration in a Male Dimorphic Damselfly. Ethology, 2013, 119, 407-416.	1.1	8
88	Conservation status assessment of Paraphlebia damselflies in Mexico. Insect Conservation and Diversity, 2015, 8, 517-524.	3.0	8
89	Allometry of Male Grasping Apparatus in Odonates Does Not Suggest Physical Coercion of Females. Journal of Insect Behavior, 2015, 28, 15-25.	0.7	8
90	Immune Priming, Fat Reserves, Muscle Mass and Body Weight of the House Cricket is Affected by Diet Composition. Neotropical Entomology, 2016, 45, 404-410.	1.2	8

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91	Body temperature regulation is associated with climatic and geographical variables but not wing pigmentation in two rubyspot damselflies (Odonata: Calopterygidae). Physiological Entomology, 2016, 41, 132-142.	1.5	8
92	Genital morphology and copulatory behavior in triatomine bugs (Reduviidae: Triatominae). Arthropod Structure and Development, 2019, 49, 103-118.	1.4	8
93	Heat shock proteins and antioxidants as mechanisms of response to ivermectin in the dung beetle Euoniticellus intermedius. Chemosphere, 2021, 269, 128707.	8.2	8
94	Is allometry of sexual traits adaptive? A field test with territorial damselflies. Biological Journal of the Linnean Society, 2015, 114, 327-334.	1.6	7
95	Possible Differences in the Effects of Trypanosoma cruzi on Blood Cells and Serum Protein of Two Wildlife Reservoirs. Vector-Borne and Zoonotic Diseases, 2016, 16, 709-716.	1.5	7
96	Physiological condition and wing pigmentation expression in a damselfly with seasonal polyphenism. Physiological Entomology, 2017, 42, 346-354.	1.5	7
97	An index to estimate the vulnerability of damselflies and dragonflies (Insecta: Odonata) to land use changes using niche modeling. Aquatic Insects, 2020, 41, 254-272.	0.9	7
98	Signs of Urban Evolution? Morpho-Functional Traits Co-variation Along a Nature-Urban Gradient in a Chagas Disease Vector. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	7
99	Large-scale human environmental intervention is related to a richness reduction in Mexican odonates. Revista Mexicana De Biodiversidad, 2017, 88, 664-673.	0.4	6
100	Multigenerational experimental simulation of climate change on an economically important insect pest. Ecology and Evolution, 2020, 10, 12893-12909.	1.9	6
101	Resilient dragons: Exploring Odonata communities in an urbanization gradient. Ecological Indicators, 2022, 141, 109134.	6.3	6
102	Effect of juvenile hormone analog in a natural host-parasite system. Evolutionary Ecology, 2012, 26, 1055-1066.	1.2	5
103	Isolation barriers and genetic divergence in non-territorialArgiadamselflies. Biological Journal of the Linnean Society, 2016, , .	1.6	5
104	Effects onMeccus pallidipennis(Hemiptera: Reduviidae) Eggs Exposed to Entomopathogenic Fungi: Exploring Alternatives to Control Chagas Disease. Journal of Medical Entomology, 2019, 56, 284-290.	1.8	5
105	Ontogenetic changes in wild chagasic bugs (Dipetalogaster maximus): exploring morphological adaptations in pre-adult and adult stages. Revista Mexicana De Biodiversidad, 2019, 90, .	0.4	5
106	Do reproductive activities compromise immunological competence as measured by phenoloxidase activity? Field and experimental manipulation in females of two damselfly species. Physiological Entomology, 2011, 36, 335-342.	1.5	4
107	Does mating activity impair phagocytosis-mediated priming immune response? A test using the house cricket, Acheta domesticus. Acta Ethologica, 2015, 18, 295-299.	0.9	4
108	Temporal Variation in Immune Components of the White Grub Phyllophaga polyphylla (Bates) (Coleoptera: Melolonthidae). Neotropical Entomology, 2015, 44, 466-473.	1.2	4

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109	A Parental Care-Mating Dilemma? Potential Risks for Offspring in the Pholcid Spider When Egg-Carrying Females Accept Mating. Journal of Insect Behavior, 2017, 30, 155-169.	0.7	4
110	Costly parenting: physiological condition over time and season in males of the giant waterbug Abedus dilatatus. Physiological Entomology, 2019, 44, 236-244.	1.5	4
111	Female preferences when female condition and male ornament expression vary. Biological Journal of the Linnean Society, 2019, 128, 828-837.	1.6	4
112	Mutual mate choice and its benefits for both sexes. Scientific Reports, 2020, 10, 19492.	3.3	4
113	Adult damselflies as possible regulators of mosquito populations in urban areas. Pest Management Science, 2021, 77, 4274-4287.	3.4	4
114	Conditionâ€dependent male copulatory courtship and its benefits for females. Ecology and Evolution, 2021, 11, 9848-9855.	1.9	4
115	Ultraviolet polarized light and individual condition drive habitat selection in tropical damselflies and dragonflies. Animal Behaviour, 2021, 180, 229-238.	1.9	4
116	Female Choice in Damselflies and Dragonflies. , 2015, , 239-253.		3
117	Survival is predicted by territorial status but not wing pigmentation in males of a polythorid damselfly, Euthore fasciata (Odonata: Zygoptera: Polythoridae). International Journal of Odonatology, 2016, 19, 183-190.	0.5	3
118	Rubyspot Territorial Damselflies Behave as â€œNasty Neighborsâ€• Journal of Insect Behavior, 2016, 29, 143-152.	0.7	3
119	Coinfection by Trypanosoma cruzi and a fungal pathogen increases survival of Chagasic bugs: advice against a fungal control strategy. Bulletin of Entomological Research, 2020, 110, 363-369.	1.0	3
120	Copulatory behaviour increases sperm viability in female spiders. Biological Journal of the Linnean Society, 2020, 131, 536-546.	1.6	3
121	Dietary macronutrient balance and fungal infection as drivers of spermatophore quality in the mealworm beetle. Current Research in Insect Science, 2021, 1, 100009.	1.7	3
122	Effects of food source and feeding frequency on Chagasic bug (Triatoma pallidipennis) fitness. Entomologia Generalis, 2021, 41, 531-542.	3.1	3
123	Impact of male alternative reproductive tactics on female costs of sexual conflict under variation in operational sex ratio and population density. Ecology and Evolution, 2018, 8, 584-591.	1.9	3
124	Estimating distribution area in six Argia damselflies (Insecta: Odonata: Coenagrionidae) including A. garrisoni, a threatened species. Revista Mexicana De Biodiversidad, 2018, 89, .	0.4	3
125	Body shape and fluctuating asymmetry following different feeding sources and feeding time in a triatomine, Triatoma pallidipennis (StÃ¥l, 1892). Infection, Genetics and Evolution, 2022, 98, 105199.	2.3	3
126	Successive matings affect copulatory courtship but not sperm transfer in a spider model. Biological Journal of the Linnean Society, 2022, 135, 299-309.	1.6	3

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127	Mites, rodents, and pathogens: A global review for a multi-species interaction in disease ecology. Acta Tropica, 2022, 232, 106509.	2.0	3
128	Consistency of femalesâ€™ stridulatory behaviour during interâ€sexual interactions in spiders. Ethology, 2019, 125, 548-554.	1.1	2
129	Predicting hybridisation as a consequence of climate change in damselflies. Insect Conservation and Diversity, 2019, 12, 427-436.	3.0	2
130	Does Heat Tolerance Explain Female Polymorphism in Damselflies?. Journal of Insect Behavior, 2021, 34, 41-48.	0.7	2
131	Insect extinction: introduction to special issue. Ecological Entomology, 2021, 46, 691-692.	2.2	2
132	What doesn't kill you makes you stronger: Detoxification ability as a mechanism of honesty in a sexually selected signal. Functional Ecology, 2021, 35, 1666-1678.	3.6	2
133	Higher temperatures reduce the number of Trypanosoma cruzi parasites in the vector Triatoma pallidipennis. Parasites and Vectors, 2021, 14, 385.	2.5	2
134	Sperm viability in spiders: a first approach using Holocnemus pluchei (Scopoli, 1763) (Synspermiata:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.5	2
135	When is a male too hot? Fitness outcomes when mating with high temperature, sick males. Journal of Thermal Biology, 2022, 105, 103222.	2.5	2
136	Contamination effects on sexual selection in wild dung beetles. Journal of Evolutionary Biology, 2022, 35, 905-918.	1.7	2
137	Characterization of 12 microsatellite loci in the waterfall damselfly (Paraphlebia zoe) for use in population genetic applications. Conservation Genetics Resources, 2012, 4, 175-177.	0.8	1
138	No Detectable Trade-Offs Among Immune Function, Fecundity, and Survival via a Juvenile Hormone Analog in the House Cricket. Neotropical Entomology, 2014, 43, 357-361.	1.2	1
139	Altitude, temperature, and parasitoid pressure may prevent competition between two Mexican bruchid beetles attacking wild Phaseolus vulgaris. Journal of Agricultural and Urban Entomology, 2019, 35, 21.	0.6	1
140	A country-scale species richness assessment suggests that the inventory of Colombian Odonata species is far from being complete. International Journal of Tropical Insect Science, 0, , 1.	1.0	1
141	Feeding and condition shifts after encountering a pathogen. Behaviour, 2021, 158, 757-780.	0.8	0
142	Behavior-based control of arthropod vectors: the case of mosquitoes, ticks, and Chagasic bugs. , 2018, , .		0
143	Modeling Mosquitoes and their Potential Odonate Predators Under Different Land Uses. EcoHealth, 0, , .	2.0	0