Jacobus C De Roode

List of Publications by Year
in descending order

67	4,133	147801	123424
papers	citations	31 h-index	61 g-index

67	67	67	4225
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parasite dynamics in North American monarchs predicted by host density and seasonal migratory culling. Journal of Animal Ecology, 2022, 91, 780-793.	2.8	14
2	Crowding does not affect monarch butterfliesâ€™ resistance to a protozoan parasite. Ecology and Evolution, 2022, 12, e8791.	1.9	2
3	Lack of inbreeding avoidance during mate selection in migratory monarch butterflies. Behavioural Processes, 2022, 198, 104630.	1.1	1
4	Experimental Infection with a Naturally Occurring Protozoan Parasite Reduces Monarch Butterfly (Danaus plexippus) Mating Success. Journal of Parasitology, 2022, 108, .	0.7	1
5	Elevated atmospheric concentrations of CO₂ increase endogenous immune function in a specialist herbivore. Journal of Animal Ecology, 2021, 90, 628-640.	2.8	3
6	Persistent effects of management history on honeybee colony virus abundances. Journal of Invertebrate Pathology, 2021, 179, 107520.	3.2	9
7	Effects of cardenolides of milkweed plants on immunity of the monarch butterfly. Arthropod-Plant Interactions, 2021, 15, 249-252.	1.1	4
8	Are eastern and western monarch butterflies distinct populations? A review of evidence for ecological, phenotypic, and genetic differentiation and implications for conservation. Conservation Science and Practice, 2021, 3, e432.	2.0	13
9	Thermal tolerance and environmental persistence of a protozoan parasite in monarch butterflies. Journal of Invertebrate Pathology, 2021, 183, 107544.	3.2	7
10	Population genomics reveals variable patterns of immune gene evolution in monarch butterflies (Danaus plexippus). Molecular Ecology, 2021, 30, 4381-4391.	3.9	4
11	Constant Light and Frequent Schedule Changes Do Not Impact Resistance to Parasites in Monarch Butterflies. Journal of Biological Rhythms, 2021, 36, 286-296.	2.6	1
12	Assessing virulence of Varroa destructor mites from different honey bee management regimes. Apidologie, 2020, 51, 276-289.	2.0	9
13	Host heterogeneity mitigates virulence evolution. Biology Letters, 2020, 16, 20190744.	2.3	23
14	Genomic evidence for gene flow between monarchs with divergent migratory phenotypes and flight performance. Molecular Ecology, 2020, 29, 2567-2582.	3.9	35
15	An experimental test of parasite adaptation to common versus rare host genotypes. Biology Letters, 2020, 16, 20200210.	2.3	1
16	Transcriptomics of monarch butterflies (Danaus plexippus) reveals that toxic host plants alter expression of detoxification genes and downâ€regulate a small number of immune genes. Molecular Ecology, 2019, 28, 4845-4863.	3.9	40
17	Dietâ€“microbiomeâ€“disease: Investigating dietâ€™s influence on infectious disease resistance through alteration of the gut microbiome. PLoS Pathogens, 2019, 15, e1007891.	4.7	49
18	Reduced density and visually complex apiaries reduce parasite load and promote honey production and overwintering survival in honey bees. PLoS ONE, 2019, 14, e0216286.	2.5	29

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19	Phytochemical changes in milkweed induced by elevated CO₂ alter wing morphology but not toxin sequestration in monarch butterflies. Functional Ecology, 2019, 33, 411-421.	3.6	15
20	Self-medication in insects: when altered behaviors of infected insects are a defense instead of a parasite manipulation. Current Opinion in Insect Science, 2019, 33, 1-6.	4.4	27
21	Of poisons and parasitesâ€"the defensive role of tetrodotoxin against infections in newts. Journal of Animal Ecology, 2018, 87, 1192-1204.	2.8	24
22	GRAPHITE: A graphical environment for scalable in situ video tracking of moving insects. Methods in Ecology and Evolution, 2018, 9, 956-964.	5.2	6
23	Effects of the parasite, Ophryocystis elektroscirrha, on wing characteristics important for migration in the monarch butterfly. Animal Migration, 2018, 5, 84-93.	1.0	15
24	Demystifying Monarch Butterfly Migration. Current Biology, 2018, 28, R1009-R1022.	3.9	92
25	Migratory monarchs that encounter resident monarchs show lifeâ€history differences and higher rates of parasite infection. Ecology Letters, 2018, 21, 1670-1680.	6.4	48
26	Elevated atmospheric concentrations of carbon dioxide reduce monarch tolerance and increase parasite virulence by altering the medicinal properties of milkweeds. Ecology Letters, 2018, 21, 1353-1363.	6.4	26
27	The Effects of Milkweed Induced Defense on Parasite Resistance in Monarch Butterflies, Danaus plexippus. Journal of Chemical Ecology, 2018, 44, 1040-1044.	1.8	11
28	Within-host competition can delay evolution of drug resistance in malaria. PLoS Biology, 2018, 16, e2005712.	5.6	51
29	Fine scale population genetic structure of Varroa destructor, an ectoparasitic mite of the honey bee (Apis mellifera). Apidologie, 2017, 48, 93-101.	2.0	32
30	Host Diet Affects the Morphology of Monarch Butterfly Parasites. Journal of Parasitology, 2017, 103, 228-236.	0.7	12
31	Phoresy. Current Biology, 2017, 27, R578-R580.	3.9	34
32	Ecological and evolutionary approaches to managing honeybee disease. Nature Ecology and Evolution, 2017, 1, 1250-1262.	7.8	73
33	Ethanol confers differential protection against generalist and specialist parasitoids of Drosophila melanogaster. PLoS ONE, 2017, 12, e0180182.	2.5	14
34	Fitness costs of animal medication: antiparasitic plant chemicals reduce fitness of monarch butterfly hosts. Journal of Animal Ecology, 2016, 85, 1246-1254.	2.8	36
35	Arbuscular mycorrhizal fungi affect plant tolerance andÂchemical defences to herbivory through different mechanisms. Journal of Ecology, 2016, 104, 561-571.	4.0	75
36	Occurrence and host specificity of a neogregarine protozoan in four milkweed butterfly hosts (Danaus spp.). Journal of Invertebrate Pathology, 2016, 140, 75-82.	3.2	13

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37	Variation in Forewing Size Linked to Migratory Status in Monarch Butterflies. Animal Migration, 2016, 3, 27-34.	1.0	29
38	Comparative genetics of Na⁺/K⁺-ATPase in monarch butterfly populations with varying host plant toxicity. Biological Journal of the Linnean Society, 2016, 119, 194-200.	1.6	10
39	Inbreeding depression in monarch butterflies. Journal of Insect Conservation, 2016, 20, 477-483.	1.4	9
40	Within-host competition and drug resistance in the human malaria parasite Plasmodium falciparum. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20153038.	2.6	50
41	Do Healthy Monarchs Migrate Farther? Tracking Natal Origins of Parasitized vs. Uninfected Monarch Butterflies Overwintering in Mexico. PLoS ONE, 2015, 10, e0141371.	2.5	80
42	Secondary Defense Chemicals in Milkweed Reduce Parasite Infection in Monarch Butterflies, Danaus plexippus. Journal of Chemical Ecology, 2015, 41, 520-523.	1.8	52
43	Disease ecology across soil boundaries: effects of below-ground fungi on above-ground hostâ€“parasite interactions. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151993.	2.6	20
44	Why infectious disease research needs community ecology. Science, 2015, 349, 1259504.	12.6	330
45	Transâ€generational parasite protection associated with paternal diet. Journal of Animal Ecology, 2015, 84, 310-321.	2.8	20
46	Extreme Heterogeneity in Parasitism Despite Low Population Genetic Structure among Monarch Butterflies Inhabiting the Hawaiian Islands. PLoS ONE, 2014, 9, e100061.	2.5	11
47	Serial founder effects and genetic differentiation during worldwide range expansion of monarch butterflies. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20142230.	2.6	73
48	The genetics of monarch butterfly migration and warning colouration. Nature, 2014, 514, 317-321.	27.8	264
49	Self-Medication in Animals. Science, 2013, 340, 150-151.	12.6	217
50	Self-Medication: A Learning Process?â€”Response. Science, 2013, 340, 1042-1042.	12.6	8
51	Behavioral Immunity in Insects. Insects, 2012, 3, 789-820.	2.2	160
52	Behavioural resistance against a protozoan parasite in the monarch butterfly. Journal of Animal Ecology, 2012, 81, 70-79.	2.8	59
53	FOOD PLANT DERIVED DISEASE TOLERANCE AND RESISTANCE IN A NATURAL BUTTERFLY-PLANT-PARASITE INTERACTIONS. Evolution; International Journal of Organic Evolution, 2012, 66, 3367-3376.	2.3	109
54	Lack of genetic differentiation between monarch butterflies with divergent migration destinations. Molecular Ecology, 2012, 21, 3433-3444.	3.9	85

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55	Non-immunological defense in an evolutionary framework. Trends in Ecology and Evolution, 2011, 26, 242-248.	8.7	152
56	Aphids indirectly increase virulence and transmission potential of a monarch butterfly parasite by reducing defensive chemistry of a shared food plant. Ecology Letters, 2011, 14, 453-461.	6.4	53
57	Ecological immunology and tolerance in plants and animals. Functional Ecology, 2011, 25, 18-28.	3.6	94
58	Monarch butterfly migration and parasite transmission in eastern North America. Ecology, 2011, 92, 342-351.	3.2	146
59	Genetic variation in resistance, but not tolerance, to a protozoan parasite in the monarch butterfly. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 751-759.	2.6	68
60	HOST-PARASITE GENETIC INTERACTIONS AND VIRULENCE-TRANSMISSION RELATIONSHIPS IN NATURAL POPULATIONS OF MONARCH BUTTERFLIES. Evolution; International Journal of Organic Evolution, 2010, 64, 502-514.	2.3	84
61	Evidence for transâ€generational medication in nature. Ecology Letters, 2010, 13, 1485-1493.	6.4	113
62	Strength in numbers: high parasite burdens increase transmission of a protozoan parasite of monarch butterflies (Danaus plexippus). Oecologia, 2009, 161, 67-75.	2.0	70
63	Host plant species affects virulence in monarch butterfly parasites. Journal of Animal Ecology, 2008, 77, 120-126.	2.8	109
64	Virulence-transmission trade-offs and population divergence in virulence in a naturally occurring butterfly parasite. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7489-7494.	7.1	245
65	WITHIN-HOST COMPETITION IN GENETICALLY DIVERSE MALARIA INFECTIONS: PARASITE VIRULENCE AND COMPETITIVE SUCCESS. Evolution; International Journal of Organic Evolution, 2006, 60, 1358-1371.	2.3	209
66	Virulence and competitive ability in genetically diverse malaria infections. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7624-7628.	7.1	353
67	Flying on empty: Reduced mitochondrial function and flight capacity in food-deprived monarch butterflies. Journal of Experimental Biology, 0, , .	1.7	2