Jessica Purcell

List of Publications by Year
in descending order

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44 papers	1,093 citations	471509 17 h-index	434195 31 g-index
45 all docs	45 docs citations	45 times ranked	1268 citing authors

#	Article	IF	Citations
1	A novel distribution of supergene genotypes is present in the socially polymorphic ant Formica neoclara. Bmc Ecology and Evolution, 2022, 22, 47.	1.6	1
2	Effects of social organization and elevation on spatial genetic structure in a montane ant. Ecology and Evolution, 2022, 12, .	1.9	4
3	A socially polymorphic Formica ant species exhibits a novel distribution of social supergene genotypes. Journal of Evolutionary Biology, 2022, 35, 1031-1044.	1.7	3
4	Social parasite distancing: RADseq reveals high inbreeding in the social parasite Microdon myrmicae but low philopatry for host ant nest. Ecological Entomology, 2021, 46, 89-99.	2.2	1
5	Evolution of specialization in a plantâ€microbial mutualism is explained by the oscillation theory of speciation. Evolution; International Journal of Organic Evolution, 2021, 75, 1070-1086.	2.3	11
6	The maintenance of polymorphism in an ancient social supergene. Molecular Ecology, 2021, 30, 6246-6258.	3.9	13
7	Early queen joining and longâ€term queen associations in polygyne colonies of an invasive wasp revealed by longitudinal genetic analysis. Evolutionary Applications, 2021, 14, 2901-2914.	3.1	3
8	Linked supergenes underlie split sex ratio and social organization in an ant. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
9	An Ancient and Eroded Social Supergene Is Widespread across Formica Ants. Current Biology, 2020, 30, 304-311.e4.	3.9	57
10	Scaling relationships in Formica ants with continuous worker size variation. Insectes Sociaux, 2020, 67, 463-472.	1.2	4
11	Formica francoeuri responds to pheromones and defensive chemical cues of social bees. Insectes Sociaux, 2020, 67, 547-556.	1.2	0
12	Task partitioning in ants lacking discrete morphological worker subcastes. Behavioral Ecology and Sociobiology, 2020, 74, 1.	1.4	7
13	Maternal effect killing by a supergene controlling ant social organization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17130-17134.	7.1	23
14	Asymmetric assortative mating and queen polyandry are linked to a supergene controlling ant social organization. Molecular Ecology, 2019, 28, 1428-1438.	3.9	33
15	Are personalities genetically determined? Inferences from subsocial spiders. BMC Genomics, 2019, 20, 867.	2.8	12
16	Are societies resilient? Challenges faced by social insects in a changing world. Insectes Sociaux, 2019, 66, 5-13.	1.2	20
17	Notes on hunting behavior of the spiderEuryopis californicaBanks, 1904 (Araneae: Theridiidae), a novel predator ofVeromessor pergandei(Mayr, 1886) harvester ants (Hymenoptera: Formicidae). Pan-Pacific Entomologist, 2018, 94, 141-145.	0.2	3
18	Environmental influence on the phenotype of ant workers revealed by common garden experiment. Behavioral Ecology and Sociobiology, 2016, 70, 357-367.	1.4	13

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19	Ant workers exhibit specialization and memory during raft formation. Die Naturwissenschaften, 2016, 103, 36.	1.6	2
20	Social context, but not individual personality, alters immigrant viability in a spider with mixed social structure. Animal Behaviour, 2016, 120, 153-161.	1.9	5
21	Ants exhibit asymmetric hybridization in a mosaic hybrid zone. Molecular Ecology, 2016, 25, 4866-4874.	3.9	14
22	Social structure varies with elevation in an Alpine ant. Molecular Ecology, 2015, 24, 498-507.	3.9	30
23	Ant Brood Function as Life Preservers during Floods. PLoS ONE, 2014, 9, e89211.	2.5	8
24	Differential allocation and deployment of direct and indirect defences by Vicia sepium along elevation gradients. Journal of Ecology, 2014, 102, 930-938.	4.0	53
25	Convergent Genetic Architecture Underlies Social Organization in Ants. Current Biology, 2014, 24, 2728-2732.	3.9	131
26	Foster carers influence brood pathogen resistance in ants. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141338.	2.6	5
27	Transitions in social complexity along elevational gradients reveal a combined impact of season length and development time on social evolution. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140627.	2.6	47
28	BIDIRECTIONAL SHIFTS IN COLONY QUEEN NUMBER IN A SOCIALLY POLYMORPHIC ANT POPULATION. Evolution; International Journal of Organic Evolution, 2013, 67, 1169-1180.	2.3	30
29	Functional diversity decreases with temperature in high elevation ant fauna. Ecological Entomology, 2013, 38, 364-373.	2.2	44
30	The influence of social structure on brood survival and development in a socially polymorphic ant: insights from a crossâ€fostering experiment. Journal of Evolutionary Biology, 2012, 25, 2288-2297.	1.7	19
31	Co-evolution between sociality and dispersal: The role of synergistic cooperative benefits. Journal of Theoretical Biology, 2012, 312, 44-54.	1.7	29
32	Spatio-Temporal Differentiation and Sociality in Spiders. PLoS ONE, 2012, 7, e34592.	2.5	17
33	The Evolution of Inbred Social Systems in Spiders and Other Organisms. Advances in the Study of Behavior, 2012, 44, 99-133.	1.6	33
34	Effects of the social environment on the survival and fungal resistance of ant brood. Behavioral Ecology and Sociobiology, 2012, 66, 467-474.	1.4	14
35	Anelosimus oritoyacu, a cloud forest social spider with only slightly female-biased primary sex ratios. Journal of Arachnology, 2011, 39, 178-182.	0.5	10
36	The expression and impact of antifungal grooming in ants. Journal of Evolutionary Biology, 2011, 24, 954-964.	1.7	119

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37	Geographic patterns in the distribution of social systems in terrestrial arthropods. Biological Reviews, 2011, 86, 475-491.	10.4	63
38	Gradients of precipitation and ant abundance may contribute to the altitudinal range limit of subsocial spiders: insights from a transplant experiment. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2617-2625.	2.6	46
39	Altitudinal Patterns of Spider Sociality and the Biology of a New Midelevation SocialAnelosimusSpecies in Ecuador. American Naturalist, 2007, 170, 783-792.	2.1	64
40	Smaller colonies and more solitary living mark higher elevation populations of a social spider. Journal of Animal Ecology, 2007, 76, 590-597.	2.8	55
41	Factors influencing route choice by avian migrants: A dynamic programming model of Pacific brant migration. Journal of Theoretical Biology, 2007, 249, 804-816.	1.7	17
42	The Worldâ€™s Highest Forest. American Scientist, 2004, 92, 454.	0.1	13
43	The Worldâ€™s Highest Forest. American Scientist, 2004, 92, 454.	0.1	1
44	Ant nests differentially affect soil chemistry across elevational gradients. Insectes Sociaux, 0, , .	1.2	1