

# Jessica Purcell

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Convergent Genetic Architecture Underlies Social Organization in Ants. <i>Current Biology</i> , 2014, 24, 2728-2732.	3.9	131
2	The expression and impact of antifungal grooming in ants. <i>Journal of Evolutionary Biology</i> , 2011, 24, 954-964.	1.7	119
3	Altitudinal Patterns of Spider Sociality and the Biology of a New Midelevation Social <i>Anelosimus</i> Species in Ecuador. <i>American Naturalist</i> , 2007, 170, 783-792.	2.1	64
4	Geographic patterns in the distribution of social systems in terrestrial arthropods. <i>Biological Reviews</i> , 2011, 86, 475-491.	10.4	63
5	An Ancient and Eroded Social Supergene Is Widespread across <i>Formica</i> Ants. <i>Current Biology</i> , 2020, 30, 304-311.e4.	3.9	57
6	Smaller colonies and more solitary living mark higher elevation populations of a social spider. <i>Journal of Animal Ecology</i> , 2007, 76, 590-597.	2.8	55
7	Differential allocation and deployment of direct and indirect defences by <i>Vicia sepium</i> along elevation gradients. <i>Journal of Ecology</i> , 2014, 102, 930-938.	4.0	53
8	Transitions in social complexity along elevational gradients reveal a combined impact of season length and development time on social evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140627.	2.6	47
9	Gradients of precipitation and ant abundance may contribute to the altitudinal range limit of subsocial spiders: insights from a transplant experiment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2617-2625.	2.6	46
10	Functional diversity decreases with temperature in high elevation ant fauna. <i>Ecological Entomology</i> , 2013, 38, 364-373.	2.2	44
11	The Evolution of Inbred Social Systems in Spiders and Other Organisms. <i>Advances in the Study of Behavior</i> , 2012, 44, 99-133.	1.6	33
12	Asymmetric assortative mating and queen polyandry are linked to a supergene controlling ant social organization. <i>Molecular Ecology</i> , 2019, 28, 1428-1438.	3.9	33
13	BIDIRECTIONAL SHIFTS IN COLONY QUEEN NUMBER IN A SOCIALLY POLYMORPHIC ANT POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1169-1180.	2.3	30
14	Social structure varies with elevation in an Alpine ant. <i>Molecular Ecology</i> , 2015, 24, 498-507.	3.9	30
15	Co-evolution between sociality and dispersal: The role of synergistic cooperative benefits. <i>Journal of Theoretical Biology</i> , 2012, 312, 44-54.	1.7	29
16	Maternal effect killing by a supergene controlling ant social organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17130-17134.	7.1	23
17	Are societies resilient? Challenges faced by social insects in a changing world. <i>Insectes Sociaux</i> , 2019, 66, 5-13.	1.2	20
18	The influence of social structure on brood survival and development in a socially polymorphic ant: insights from a cross-fostering experiment. <i>Journal of Evolutionary Biology</i> , 2012, 25, 2288-2297.	1.7	19

#	ARTICLE	IF	CITATIONS
19	Factors influencing route choice by avian migrants: A dynamic programming model of Pacific brant migration. <i>Journal of Theoretical Biology</i> , 2007, 249, 804-816.	1.7	17
20	Spatio-Temporal Differentiation and Sociality in Spiders. <i>PLoS ONE</i> , 2012, 7, e34592.	2.5	17
21	Effects of the social environment on the survival and fungal resistance of ant brood. <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 467-474.	1.4	14
22	Ants exhibit asymmetric hybridization in a mosaic hybrid zone. <i>Molecular Ecology</i> , 2016, 25, 4866-4874.	3.9	14
23	Environmental influence on the phenotype of ant workers revealed by common garden experiment. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 357-367.	1.4	13
24	The maintenance of polymorphism in an ancient social supergene. <i>Molecular Ecology</i> , 2021, 30, 6246-6258.	3.9	13
25	The World's Highest Forest. <i>American Scientist</i> , 2004, 92, 454.	0.1	13
26	Linked supergenes underlie split sex ratio and social organization in an ant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
27	Are personalities genetically determined? Inferences from subsocial spiders. <i>BMC Genomics</i> , 2019, 20, 867.	2.8	12
28	Evolution of specialization in a plant-microbial mutualism is explained by the oscillation theory of speciation. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 1070-1086.	2.3	11
29	<i>Anelosimus oritoyacu</i> , a cloud forest social spider with only slightly female-biased primary sex ratios. <i>Journal of Arachnology</i> , 2011, 39, 178-182.	0.5	10
30	Ant Brood Function as Life Preservers during Floods. <i>PLoS ONE</i> , 2014, 9, e89211.	2.5	8
31	Task partitioning in ants lacking discrete morphological worker subcastes. <i>Behavioral Ecology and Sociobiology</i> , 2020, 74, 1.	1.4	7
32	Foster carers influence brood pathogen resistance in ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141338.	2.6	5
33	Social context, but not individual personality, alters immigrant viability in a spider with mixed social structure. <i>Animal Behaviour</i> , 2016, 120, 153-161.	1.9	5
34	Scaling relationships in <i>Formica</i> ants with continuous worker size variation. <i>Insectes Sociaux</i> , 2020, 67, 463-472.	1.2	4
35	Effects of social organization and elevation on spatial genetic structure in a montane ant. <i>Ecology and Evolution</i> , 2022, 12, .	1.9	4
36	Notes on hunting behavior of the spider <i>Euryopis californica</i> Banks, 1904 (Araneae: Theridiidae), a novel predator of <i>Veromessor pergandei</i> (Mayr, 1886) harvester ants (Hymenoptera: Formicidae). <i>Pan-Pacific Entomologist</i> , 2018, 94, 141-145.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Early queen joining and long-term queen associations in polygyne colonies of an invasive wasp revealed by longitudinal genetic analysis. <i>Evolutionary Applications</i> , 2021, 14, 2901-2914.	3.1	3
38	A socially polymorphic <i>Formica</i> ant species exhibits a novel distribution of social supergene genotypes. <i>Journal of Evolutionary Biology</i> , 2022, 35, 1031-1044.	1.7	3
39	Ant workers exhibit specialization and memory during raft formation. <i>Die Naturwissenschaften</i> , 2016, 103, 36.	1.6	2
40	Social parasite distancing: RADseq reveals high inbreeding in the social parasite <i>Microdon myrmicae</i> but low philopatry for host ant nest. <i>Ecological Entomology</i> , 2021, 46, 89-99.	2.2	1
41	The World's Highest Forest. <i>American Scientist</i> , 2004, 92, 454.	0.1	1
42	A novel distribution of supergene genotypes is present in the socially polymorphic ant <i>Formica neoclara</i> . <i>Bmc Ecology and Evolution</i> , 2022, 22, 47.	1.6	1
43	Ant nests differentially affect soil chemistry across elevational gradients. <i>Insectes Sociaux</i> , 0, , .	1.2	1
44	<i>Formica francoeuri</i> responds to pheromones and defensive chemical cues of social bees. <i>Insectes Sociaux</i> , 2020, 67, 547-556.	1.2	0