

Michel Chapuisat

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,237
citations

94269

37
h-index

123241

61
g-index

104
all docs

104
docs citations

104
times ranked

2801
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	13.7	339
2	Conditional Manipulation of Sex Ratios by Ant Workers: A Test of Kin Selection Theory. <i>Science</i> , 1996, 274, 993-995.	6.0	252
3	Wood ants use resin to protect themselves against pathogens. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2013-2017.	1.2	140
4	Evidence for collective medication in ants. <i>Ecology Letters</i> , 2003, 6, 19-22.	3.0	135
5	Convergent Genetic Architecture Underlies Social Organization in Ants. <i>Current Biology</i> , 2014, 24, 2728-2732.	1.8	131
6	Non-random fertilization in mice correlates with the MHC and something else. <i>Heredity</i> , 1996, 77, 400-409.	1.2	124
7	The expression and impact of antifungal grooming in ants. <i>Journal of Evolutionary Biology</i> , 2011, 24, 954-964.	0.8	119
8	MICROSATELLITES REVEAL HIGH POPULATION VISCOSITY AND LIMITED DISPERSAL IN THE ANT <i>FORMICA PARALUGUBRIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 475-482.	1.1	111
9	Testing kin selection with sex allocation data in eusocial Hymenoptera. <i>Heredity</i> , 1999, 82, 473-478.	1.2	109
10	Nestmate recognition and the genetic relatedness of nests in the ant <i>Formica pratensis</i> . <i>Behavioral Ecology and Sociobiology</i> , 1998, 43, 67-72.	0.6	94
11	Division of labour and worker size polymorphism in ant colonies: the impact of social and genetic factors. <i>Behavioral Ecology and Sociobiology</i> , 2005, 59, 215-221.	0.6	93
12	Genetic analysis of the breeding system of an invasive subterranean termite, <i>Reticulitermes santonensis</i> , in urban and natural habitats. <i>Molecular Ecology</i> , 2005, 14, 1311-1320.	2.0	90
13	Experimentally increased group diversity improves disease resistance in an ant species. <i>Ecology Letters</i> , 2008, 11, 682-689.	3.0	89
14	INBREEDING AND SEX-BIASED GENE FLOW IN THE ANT <i>FORMICA EXSECTA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1552-1561.	1.1	87
15	VARIABLE QUEEN NUMBER IN ANT COLONIES: NO IMPACT ON QUEEN TURNOVER, INBREEDING, AND POPULATION GENETIC DIFFERENTIATION IN THE ANT <i>FORMICA SELYSI</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1064-1072.	1.1	85
16	Sex-ratio regulation: the economics of fratricide in ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1255-1260.	1.2	82
17	MHC-genotype of progeny influenced by parental infection. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 711-716.	1.2	74
18	Division of labour influences the rate of ageing in weaver ant workers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 909-913.	1.2	70

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19	Cooperation among Selfish Individuals in Insect Societies. <i>BioScience</i> , 1999, 49, 899-909.	2.2	67
20	Prophylaxis with resin in wood ants. <i>Animal Behaviour</i> , 2008, 75, 1591-1596.	0.8	67
21	Extended family structure in the ant <i>Formica paralugubris</i> : the role of the breeding system. <i>Behavioral Ecology and Sociobiology</i> , 1999, 46, 405-412.	0.6	65
22	Split sex ratios in the social Hymenoptera: a meta-analysis. <i>Behavioral Ecology</i> , 2008, 19, 382-390.	1.0	65
23	No Evidence for Immune Priming in Ants Exposed to a Fungal Pathogen. <i>PLoS ONE</i> , 2012, 7, e35372.	1.1	64
24	Unicoloniality, recognition and genetic differentiation in a native <i>Formica</i> ant. <i>Journal of Evolutionary Biology</i> , 2006, 19, 2031-2039.	0.8	63
25	Long live the queen: studying aging in social insects. <i>Age</i> , 2005, 27, 241-248.	3.0	62
26	Microsatellites Reveal High Population Viscosity and Limited Dispersal in the Ant <i>Formica paralugubris</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 475.	1.1	57
27	An Ancient and Eroded Social Supergene Is Widespread across <i>Formica</i> Ants. <i>Current Biology</i> , 2020, 30, 304-311.e4.	1.8	57
28	Alternative life-histories in a socially polymorphic ant. <i>Evolutionary Ecology</i> , 2007, 21, 577-588.	0.5	56
29	Mating frequency of ant queens with alternative dispersal strategies, as revealed by microsatellite analysis of sperm. <i>Molecular Ecology</i> , 1998, 7, 1097-1105.	2.0	55
30	Sex Allocation Conflict in Ants: When the Queen Rules. <i>Current Biology</i> , 2006, 16, 328-331.	1.8	55
31	Nestmate recognition in the unicolonial ant <i>Formica paralugubris</i> . <i>Behavioral Ecology</i> , 2005, 16, 15-19.	1.0	49
32	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.	1.2	47
33	Sham nepotism as a result of intrinsic differences in brood viability in ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2049-2052.	1.2	45
34	Wood ants produce a potent antimicrobial agent by applying formic acid on tree-collected resin. <i>Ecology and Evolution</i> , 2017, 7, 2249-2254.	0.8	44
35	Flexible social organization and high incidence of drifting in the sweat bee, <i>Halictus scabiosae</i> . <i>Molecular Ecology</i> , 2009, 18, 1791-1800.	2.0	43
36	Mating triggers dynamic immune regulations in wood ant queens. <i>Journal of Evolutionary Biology</i> , 2009, 22, 564-570.	0.8	43

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37	The determinants of queen size in a socially polymorphic ant. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1906-1913.	0.8	43
38	The presence of conifer resin decreases the use of the immune system in wood ants. <i>Ecological Entomology</i> , 2008, 33, 408-412.	1.1	40
39	Genetic clusters and sex-biased gene flow in a unicolonial <i>Formica</i> ant. <i>BMC Evolutionary Biology</i> , 2009, 9, 69.	3.2	40
40	Diversity, prevalence and virulence of fungal entomopathogens in colonies of the ant <i>Formica selysi</i> . <i>Insectes Sociaux</i> , 2012, 59, 231-239.	0.7	39
41	Pupal cocoons affect sanitary brood care and limit fungal infections in ant colonies. <i>BMC Evolutionary Biology</i> , 2013, 13, 225.	3.2	39
42	Immune priming and pathogen resistance in ant queens. <i>Ecology and Evolution</i> , 2014, 4, 1761-1767.	0.8	39
43	Sex ratio and <i>Wolbachia</i> infection in the ant <i>Formica exsecta</i> . <i>Heredity</i> , 2001, 87, 227-233.	1.2	36
44	Born to be bee, fed to be worker? The caste system of a primitively eusocial insect. <i>Frontiers in Zoology</i> , 2012, 9, 35.	0.9	36
45	Putative determinants of virulence in <i>Melissococcus plutonius</i> , the bacterial agent causing European foulbrood in honey bees. <i>Virulence</i> , 2020, 11, 554-567.	1.8	36
46	Altruism across disciplines: one word, multiple meanings. <i>Biology and Philosophy</i> , 2013, 28, 125-140.	0.7	33
47	Asymmetric assortative mating and queen polyandry are linked to a supergene controlling ant social organization. <i>Molecular Ecology</i> , 2019, 28, 1428-1438.	2.0	33
48	BIDIRECTIONAL SHIFTS IN COLONY QUEEN NUMBER IN A SOCIALLY POLYMORPHIC ANT POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1169-1180.	1.1	30
49	Social structure varies with elevation in an Alpine ant. <i>Molecular Ecology</i> , 2015, 24, 498-507.	2.0	30
50	Nestmate recognition and levels of aggression are not altered by changes in genetic diversity in a socially polymorphic ant. <i>Animal Behaviour</i> , 2007, 74, 951-956.	0.8	28
51	Male reproductive success: paternity contribution to queens and workers in <i>Formica</i> ants. <i>Behavioral Ecology and Sociobiology</i> , 1997, 41, 11-15.	0.6	27
52	Genotyping faeces reveals facultative kin association on capercaillie's leks. <i>Conservation Genetics</i> , 2006, 7, 665-674.	0.8	26
53	Flexible colony-founding strategies in a socially polymorphic ant. <i>Animal Behaviour</i> , 2010, 79, 467-472.	0.8	25
54	Developmental, metabolic and immunological costs of flea infestation in the common vole. <i>Functional Ecology</i> , 2008, 22, 1091-1098.	1.7	23

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55	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.	3.3	23
56	Experimental manipulation of colony genetic diversity had no effect on short-term task efficiency in the Argentine ant <i>Linepithema humile</i> . <i>Behavioral Ecology and Sociobiology</i> , 2005, 58, 87-98.	0.6	19
57	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.	0.8	19
58	Queen acceptance in a socially polymorphic ant. <i>Animal Behaviour</i> , 2011, 81, 163-168.	0.8	18
59	Reproductive conflicts and egg discrimination in a socially polymorphic ant. <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1655-1663.	0.6	17
60	Covariation between colony social structure and immune defences of workers in the ant <i>Formica selysi</i> . <i>Insectes Sociaux</i> , 2010, 57, 233-238.	0.7	17
61	Wood ants protect their brood with tree resin. <i>Animal Behaviour</i> , 2014, 93, 157-161.	0.8	17
62	Convergent evolution of a labile nutritional symbiosis in ants. <i>ISME Journal</i> , 2022, 16, 2114-2122.	4.4	15
63	Effects of the social environment on the survival and fungal resistance of ant brood. <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 467-474.	0.6	14
64	Ants exhibit asymmetric hybridization in a mosaic hybrid zone. <i>Molecular Ecology</i> , 2016, 25, 4866-4874.	2.0	14
65	Social Evolution: Sick Ants Face Death Alone. <i>Current Biology</i> , 2010, 20, R104-R105.	1.8	13
66	Environmental influence on the phenotype of ant workers revealed by common garden experiment. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 357-367.	0.6	13
67	Stay or drift? Queen acceptance in the ant <i>Formica paralugubris</i> . <i>Insectes Sociaux</i> , 2008, 55, 392-396.	0.7	12
68	Impact of helpers on colony productivity in a primitively eusocial bee. <i>Behavioral Ecology and Sociobiology</i> , 2014, 68, 291-298.	0.6	12
69	No evidence for social immunity in co-founding queen associations. <i>Scientific Reports</i> , 2017, 7, 16262.	1.6	12
70	Foreign ant queens are accepted but produce fewer offspring. <i>Oecologia</i> , 2008, 157, 717-723.	0.9	11
71	The evolution of utility functions and psychological altruism. <i>Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences</i> , 2016, 56, 24-31.	0.8	11
72	Evolution: Plastic Sociality in a Sweat Bee. <i>Current Biology</i> , 2010, 20, R977-R979.	1.8	10

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73	Smells Like Queen Since the Cretaceous. <i>Science</i> , 2014, 343, 254-255.	6.0	9
74	Winter is coming: harsh environments limit independent reproduction of cooperative-breeding queens in a socially polymorphic ant. <i>Biology Letters</i> , 2020, 16, 20190730.	1.0	9
75	Unbalanced selection: the challenge of maintaining a social polymorphism when a supergene is selfish. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	1.8	9
76	Taxonomic Status of <i>Hylomys parvus</i> and <i>Hylomys suillus</i> (Insectivora: Erinaceidae): Biochemical and Morphological Analyses. <i>Journal of Mammalogy</i> , 1994, 75, 965-978.	0.6	8
77	Ant Brood Function as Life Preservers during Floods. <i>PLoS ONE</i> , 2014, 9, e89211.	1.1	8
78	Fine-scale habitat heterogeneity favours the coexistence of supergene-controlled social forms in <i>Formica selysi</i> . <i>Bmc Ecology and Evolution</i> , 2021, 21, 24.	0.7	8
79	Highly variable social organisation of colonies in the ant <i>Formica cinerea</i> . <i>Hereditas</i> , 2003, 139, 7-12.	0.5	7
80	Low relatedness and frequent inter-nest movements in a eusocial sweat bee. <i>Insectes Sociaux</i> , 2016, 63, 249-256.	0.7	7
81	No mate preference associated with the supergene controlling social organization in Alpine silver ants. <i>Journal of Evolutionary Biology</i> , 2019, 32, 742-748.	0.8	7
82	Disentangling the mechanisms linking dispersal and sociality in supergene-mediated ant social forms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210118.	1.2	7
83	Choosy Moral Punishers. <i>PLoS ONE</i> , 2012, 7, e39002.	1.1	6
84	INBREEDING AND SEX-BIASED GENE FLOW IN THE ANT <i>FORMICA EXSECTA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1552.	1.1	5
85	Foster carers influence brood pathogen resistance in ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141338.	1.2	5
86	Social insect colonies are more likely to accept unrelated queens when they come with workers. <i>Behavioral Ecology</i> , 0, , .	1.0	5
87	Evolution: Social Selection for Eccentricity. <i>Current Biology</i> , 2004, 14, R1003-R1004.	1.8	4
88	Longevity differs among sexes but is not affected by repeated immune activation in voles (<i>Microtus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	4
89	Cooperation by ant queens during colony-founding perpetuates alternative forms of social organization. <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 165.	0.6	4
90	Effects of social organization and elevation on spatial genetic structure in a montane ant. <i>Ecology and Evolution</i> , 2022, 12, .	0.8	4

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91	VARIABLE QUEEN NUMBER IN ANT COLONIES: NO IMPACT ON QUEEN TURNOVER, INBREEDING, AND POPULATION GENETIC DIFFERENTIATION IN THE ANT FORMICA SELYSI. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1064.	1.1	3
92	Social Evolution: The Smell of Cheating. <i>Current Biology</i> , 2009, 19, R196-R198.	1.8	3
93	The ant and the lion: common principles and idiosyncratic differences in social evolution. <i>Trends in Ecology and Evolution</i> , 1997, 12, 463-465.	4.2	2
94	Microsatellite markers for <i>Rhytidoponera metallica</i> and other ponerine ants. <i>Molecular Ecology</i> , 2000, 9, 2218-2220.	2.0	2
95	Ant workers exhibit specialization and memory during raft formation. <i>Die Naturwissenschaften</i> , 2016, 103, 36.	0.6	2
96	Bourke, A. F. G. and Franks, N. R. 1995. <i>Social Evolution in Ants</i> . Princeton University Press, Princeton, New Jersey, xiii + 529 pp. ISBN 0-691-04427-9 (cl), \$75.00 or 0-691-04426-0 (pbk), \$29.95.. <i>Journal of Evolutionary Biology</i> , 1996, 9, 1032-1034.	0.8	1
97	No Evidence for Moral Reward and Punishment in an Anonymous Context. <i>PLoS ONE</i> , 2016, 11, e0150388.	1.1	0