Serge Aron

List of Publications by Year
in descending order

76 papers	2,440 citations	257450 24 h-index	233421 45 g-index
80 all docs	80 docs citations	80 times ranked	1894 citing authors

#	Article	IF	Citations
1	Self-organization in social insects. Trends in Ecology and Evolution, 1997, 12, 188-193.	8.7	534
2	Conditional Use of Sex and Parthenogenesis for Worker and Queen Production in Ants. Science, 2004, 306, 1780-1783.	12.6	153
3	Queen-worker conflict over sex ratio: A comparison of primary and secondary sex ratios in the Argentine ant, Iridomyrmex humilis. Journal of Evolutionary Biology, 1994, 7, 403-418.	1.7	82
4	When Hymenopteran Males Reinvented Diploidy. Current Biology, 2005, 15, 824-827.	3.9	67
5	Prudent sperm use by leaf-cutter ant queens. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3945-3953.	2.6	66
6	Social Hybridogenesis in the Clonal Ant Cataglyphis hispanica. Current Biology, 2012, 22, 1188-1193.	3.9	65
7	Ovarian activity correlates with extreme changes in cuticular hydrocarbon profile in the highly polygynous ant, Linepithema humile. Journal of Insect Physiology, 2004, 50, 585-593.	2.0	61
8	Internest sex-ratio variation and male brood survival in the ant Pheidole pallidula. Behavioral Ecology, 1996, 7, 292-298.	2.2	59
9	Role of resource availability on sex, caste and reproductive allocation ratios in the Argentine ant Linepithema humile. Journal of Animal Ecology, 2001, 70, 831-839.	2.8	58
10	Social Life in Arid Environments: The Case Study of Cataglyphis Ants. Annual Review of Entomology, 2017, 62, 305-321.	11.8	57
11	Total Internal Reflection Accounts for the Bright Color of the Saharan Silver Ant. PLoS ONE, 2016, 11, e0152325.	2.5	55
12	Adaptations to thermal stress in social insects: recent advances and future directions. Biological Reviews, 2020, 95, 1535-1553.	10.4	46
13	Production of Early Diploid Males by European Colonies of the Invasive Hornet Vespa velutina nigrithorax. PLoS ONE, 2015, 10, e0136680.	2.5	40
14	Influence of queen phenotype, investment and maternity apportionment on the outcome of fights in cooperative foundations of the ant Lasius niger. Animal Behaviour, 2009, 77, 1067-1074.	1.9	37
15	Genetic diversity, worker size polymorphism and division of labour in the polyandrous ant Cataglyphis cursor. Animal Behaviour, 2008, 75, 151-158.	1.9	36
16	Genetics, behaviour and chemical recognition of the invading ant Pheidole megacephala. Molecular Ecology, 2009, 18, 186-199.	3.9	36
17	Local resource competition and sex ratio in the ant Cataglyphis cursor. Behavioral Ecology, 2006, 17, 569-574.	2.2	35
18	Multiple mating and supercoloniality in Cataglyphis desert ants. Biological Journal of the Linnean Society, 2011, 104, 866-876.	1.6	35

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19	Dual mechanism of queen influence over sex ratio in the ant Pheidole pallidula. Behavioral Ecology and Sociobiology, 2005, 58, 527-533.	1.4	33
20	Proteome stability, heat hardening, and heat-shock protein expression profiles in Cataglyphis desert ants. Journal of Experimental Biology, 2017, 220, 1721-1728.	1.7	31
21	Genetic Evidence Confirms Polygamous Mating System in a Crustacean Parasite with Multiple Hosts. PLoS ONE, 2014, 9, e90680.	2.5	30
22	Genetic polyethism in the polyandrous desert ant Cataglyphis cursor. Behavioral Ecology, 2013, 24, 144-151.	2.2	28
23	Protein restriction affects sperm number but not sperm viability in male ants. Journal of Insect Physiology, 2017, 100, 71-76.	2.0	28
24	Brood sex ratio determination by flow cytometry in ants. Molecular Ecology Notes, 2003, 3, 471-475.	1.7	27
25	Small-scale spatial genetic structure in an ant species with sex-biased dispersal. Biological Journal of the Linnean Society, 0, 93, 465-473.	1.6	27
26	Evolution of reproductive traits in Cataglyphis desert ants: mating frequency, queen number, and thelytoky. Behavioral Ecology and Sociobiology, 2016, 70, 1367-1379.	1.4	27
27	Genetic Structure, Nestmate Recognition and Behaviour of Two Cryptic Species of the Invasive Big-Headed Ant Pheidole megacephala. PLoS ONE, 2012, 7, e31480.	2.5	27
28	Seasonal nestmate recognition in the polydomous ant Plagiolepis pygmaea. Animal Behaviour, 2008, 75, 1023-1030.	1.9	26
29	Sperm production characteristics vary with level of sperm competition in Cataglyphis desert ants. Functional Ecology, 2016, 30, 614-624.	3.6	26
30	Repeated evolution of queen parthenogenesis and social hybridogenesis in Cataglyphis desert ants. Molecular Ecology, 2020, 29, 549-564.	3.9	26
31	Roost and hunting site fidelity of female and juvenile Daubenton's bat Myotis daubentonii (Kuhl, 1817) (Chiroptera: Vespertilionidae). Mammalian Biology, 2008, 73, 267-275.	1.5	25
32	Reproductive strategy: an essential component in the success of incipient colonies of the invasive Argentine ant. Insectes Sociaux, 2001, 48, 25-27.	1.2	23
33	Investigation of the population genetic structure and mating system in the ant Pheidole pallidula. Molecular Ecology, 2002, 11, 1805-1814.	3.9	23
34	Team swimming in ant spermatozoa. Biology Letters, 2014, 10, 20140308.	2.3	23
35	Evolutionary reduction of female dispersal in Cataglyphis desert ants. Biological Journal of the Linnean Society, 2017, 122, 58-70.	1.6	23
36	Rapid determination of sperm number in ant queens by flow cytometry. Insectes Sociaux, 2008, 55, 283-287.	1.2	22

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37	Diploid males, diploid sperm production, and triploid females in the ant Tapinoma erraticum. Die Naturwissenschaften, 2009, 96, 1393-1400.	1.6	22
38	Evolution of miniaturisation in inquiline parasitic ants: Timing of male elimination in Plagiolepis pygmaea, the host of Plagiolepis xene. Insectes Sociaux, 2004, 51, 395-399.	1.2	21
39	Large-scale distribution of hybridogenetic lineages in a Spanish desert ant. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132396.	2.6	21
40	Introgression of mitochondrial DNA among lineages in a hybridogenetic ant. Biology Letters, 2015, 11, 20140971.	2.3	21
41	Social and Population Structure in the Ant Cataglyphis emmae. PLoS ONE, 2013, 8, e72941.	2.5	20
42	Absolute configuration of anabasine from Messor and Aphaenogaster ants. Journal of Chemical Ecology, 2001, 27, 945-952.	1.8	19
43	At the brink of supercoloniality: genetic, behavioral, and chemical assessments of population structure of the desert ant Cataglyphis niger. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	19
44	Ant sperm storage organs do not have phenoloxidase constitutive immune activity. Journal of Insect Physiology, 2015, 78, 9-14.	2.0	19
45	Primary sex ratio adjustment by ant queens in response to local mate competition. Animal Behaviour, 2005, 69, 1031-1035.	1.9	18
46	Split Sex Ratios in Perennial Social Hymenoptera: A Mixed Evolutionary Stable Strategy from the Queensâ€™ Perspective?. American Naturalist, 2003, 162, 624-637.	2.1	16
47	Cryptic lineages hybridize for worker production in the harvester ant Messor barbarus. Biology Letters, 2016, 12, 20160542.	2.3	16
48	The genetic population structure of the ant Plagiolepis xene-implications for genetic vulnerability of obligate social parasites. Conservation Genetics, 2006, 7, 241-250.	1.5	14
49	Molecular adaptations to heat stress in the thermophilic ant genus Cataglyphis. Molecular Ecology, 2021, 30, 5503-5516.	3.9	14
50	Social Structure and Genetic Distance Mediate Nestmate Recognition and Aggressiveness in the Facultative Polygynous Ant Pheidole pallidula. PLoS ONE, 2016, 11, e0156440.	2.5	14
51	Fertile diploid males in the ant Cataglyphis cursor: a potential cost of thelytoky?. Behavioral Ecology and Sociobiology, 2013, 67, 1983-1993.	1.4	13
52	Measuring inotocin receptor gene expression in chronological order in ant queens. Hormones and Behavior, 2017, 96, 116-121.	2.1	13
53	Evolutionary history of inquiline social parasitism in Plagiolepis ants. Molecular Phylogenetics and Evolution, 2021, 155, 107016.	2.7	12
54	Hybridization and invasiveness in social insects â€" The good, the bad and the hybrid. Current Opinion in Insect Science, 2021, 46, 1-9.	4.4	12

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55	Molecular chaperoning helps safeguarding mitochondrial integrity and motor functions in the Sahara silver ant Cataglyphis bombycina. Scientific Reports, 2018, 8, 9220.	3.3	11
56	The Interplay between Incipient Species and Social Polymorphism in the Desert Ant Cataglyphis. Scientific Reports, 2019, 9, 9495.	3.3	11
57	Ant queens adjust egg fertilization to benefit from both sexual and asexual reproduction. Biology Letters, 2011, 7, 571-573.	2.3	10
58	Antibacterial activity of male and female sperm-storage organs in ants. Journal of Experimental Biology, 2018, 221, .	1.7	10
59	Impact of immune activation on stored sperm viability in ant queens. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20182248.	2.6	10
60	Evolution: No-Male's Land for an Amazonian Ant. Current Biology, 2009, 19, R738-R740.	3.9	9
61	Phenotypic plasticity in an ant with strong casteâ€“genotype association. Biology Letters, 2018, 14, 20170705.	2.3	9
62	Testing the genetic determination of the soldier caste in the silver ant. Insectes Sociaux, 2015, 62, 517-524.	1.2	8
63	Mode of colony foundation influences the primary sex ratio in ants. Animal Behaviour, 1999, 57, 325-329.	1.9	7
64	The evolution of ant worker polymorphism correlates with multiple social traits. Behavioral Ecology and Sociobiology, 2021, 75, 1.	1.4	7
65	Mating triggers an up-regulation of vitellogenin and defensin in ant queens. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 745-753.	1.6	6
66	Evolution of hybridogenetic lineages in Cataglyphis ants. Molecular Ecology, 2019, 28, 3073-3088.	3.9	6
67	Isolation and characterization of microsatellite loci from the invasive ant Pheidole megacephala. Molecular Ecology Resources, 2008, 8, 919-922.	4.8	5
68	Chromosome-level genome assembly and annotation of two lineages of the ant Cataglyphis hispanica: stepping stones towards genomic studies of hybridogenesis and thermal adaptation in desert ants. , 0, 2, .		5
69	UNEXPLAINED SPLIT SEX RATIOS IN THE NEOTROPICAL PLANT-ANT,ALLOMERUS OCTOARTICULATUSVAR.DEMERARAE(MYRMICINAE): A TEST OF HYPOTHESES. Evolution; International Journal of Organic Evolution, 2010, 64, 126-141.	2.3	4
70	Dispersal in the inquiline social parasite ant Plagiolepis xene. Insectes Sociaux, 2014, 61, 197-202.	1.2	4
71	Sociogenetic Organization of the Red Honey Ant (Melophorus bagoti). Insects, 2020, 11, 755.	2.2	4
72	Colony co-founding in antsÂis an active process by queens. Scientific Reports, 2020, 10, 13539.	3.3	4

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73	Cataglyphis. , 2021, , 217-223.		2
74	Detection of Cryptic Sex in Automictic Populations: Theoretical Expectations and a Case Study in Cataglyphis Desert Ants. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	2
75	Cataglyphis. , 2019, , 1-7.		0
76	Sociogenetic structure, reproductive strategies and queen replacement in the erratic ant (Tapinoma erraticum). Biological Journal of the Linnean Society, 0, , .	1.6	0