Michael A D Goodisman

List of Publications by Year
in descending order

80	4,667	136885	110317
papers	citations	32 h-index	64 g-index

80	80	80	4694
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular traces of alternative social organization in a termite genome. Nature Communications, 2014, 5, 3636.	5.8	371
2	Genomic signatures of evolutionary transitions from solitary to group living. Science, 2015, 348, 1139-1143.	6.0	357
3	The genome of the fire ant Solenopsis invicta. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5679-5684.	3.3	322
4	DNA methylation is widespread and associated with differential gene expression in castes of the honeybee, Apis mellifera. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11206-11211.	3.3	303
5	Genome of the Asian longhorned beetle (Anoplophora glabripennis), a globally significant invasive species, reveals key functional and evolutionary innovations at the beetleâ€“plant interface. Genome Biology, 2016, 17, 227.	3.8	244
6	DNA methylation in insects: on the brink of the epigenomic era. Insect Molecular Biology, 2011, 20, 553-565.	1.0	211
7	Social insect genomes exhibit dramatic evolution in gene composition and regulation while preserving regulatory features linked to sociality. Genome Research, 2013, 23, 1235-1247.	2.4	205
8	Gene content evolution in the arthropods. Genome Biology, 2020, 21, 15.	3.8	150
9	Relaxed selection is a precursor to the evolution of phenotypic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15936-15941.	3.3	148
10	The caste- and sex-specific DNA methylome of the termite Zootermopsis nevadensis. Scientific Reports, 2016, 6, 37110.	1.6	139
11	Epigenetics in Insects: Genome Regulation and the Generation of Phenotypic Diversity. Annual Review of Entomology, 2019, 64, 185-203.	5.7	137
12	Functional Conservation of DNA Methylation in the Pea Aphid and the Honeybee. Genome Biology and Evolution, 2010, 2, 719-728.	1.1	109
13	The Function of Intragenic DNA Methylation: Insights from Insect Epigenomes. Integrative and Comparative Biology, 2013, 53, 319-328.	0.9	96
14	Queen Dispersal Strategies in the Multipleâ€Queen Form of the Fire AntSolenopsis invicta. American Naturalist, 1999, 153, 660-675.	1.0	91
15	Patterning and Regulatory Associations of DNA Methylation Are Mirrored by Histone Modifications in Insects. Genome Biology and Evolution, 2013, 5, 591-598.	1.1	91
16	Evolutionary insights into DNA methylation in insects. Current Opinion in Insect Science, 2014, 1, 25-30.	2.2	82
17	The Toxicogenome of Hyalella azteca: A Model for Sediment Ecotoxicology and Evolutionary Toxicology. Environmental Science & Technology, 2018, 52, 6009-6022.	4.6	79
18	Sib mating without inbreeding in the longhorn crazy ant. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2677-2681.	1.2	78

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19	POPULATION AND COLONY GENETIC STRUCTURE OF THE PRIMITIVE TERMITE MASTOTERMES DARWINIENSIS. Evolution; International Journal of Organic Evolution, 2002, 56, 70-83.	1.1	77
20	Gene expression and the evolution of phenotypic diversity in social wasps. BMC Biology, 2007, 5, 23.	1.7	55
21	Computational approaches for understanding the evolution of DNA methylation in animals. Epigenetics, 2009, 4, 551-556.	1.3	55
22	Sociality Is Linked to Rates of Protein Evolution in a Highly Social Insect. Molecular Biology and Evolution, 2010, 27, 497-500.	3.5	50
23	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2010 â€“ 30 September 2010. Molecular Ecology Resources, 2011, 11, 219-222.	2.2	48
24	Evolution at Two Levels in Fire Ants: The Relationship between Patterns of Gene Expression and Protein Sequence Evolution. Molecular Biology and Evolution, 2013, 30, 263-271.	3.5	46
25	Hierarchical genetic structure of the introduced wasp Vespula germanica in Australia. Molecular Ecology, 2001, 10, 1423-1432.	2.0	44
26	Behavioral and mechanical determinants of collective subsurface nest excavation. Journal of Experimental Biology, 2015, 218, 1295-1305.	0.8	44
27	Collective clog control: Optimizing traffic flow in confined biological and robophysical excavation. Science, 2018, 361, 672-677.	6.0	42
28	Effects of Size, Shape, Genotype, and Mating Status on Queen Overwintering Survival in the Social Wasp <I>Vespula maculifrons</I>. Environmental Entomology, 2012, 41, 1612-1620.	0.7	39
29	THE SIGNIFICANCE OF MULTIPLE MATING IN THE SOCIAL WASP VESPULA MACULIFRONS. Evolution; International Journal of Organic Evolution, 2007, 61, 2260-2267.	1.1	37
30	Glass-like dynamics in confined and congested ant traffic. Soft Matter, 2015, 11, 6552-6561.	1.2	37
31	Effects of DNA Methylation and Chromatin State on Rates of Molecular Evolution in Insects. G3: Genes, Genomes, Genetics, 2016, 6, 357-363.	0.8	37
32	Evidence of a conserved functional role for <scp>DNA</scp> methylation in termites. Insect Molecular Biology, 2013, 22, 143-154.	1.0	36
33	Epigenetic inheritance and genome regulation: is DNA methylation linked to ploidy in haplodiploid insects?. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140411.	1.2	36
34	Climbing, falling, and jamming during ant locomotion in confined environments. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9746-9751.	3.3	34
35	Lack of conflict during queen production in the social wasp Vespula maculifrons. Molecular Ecology, 2007, 16, 2589-2595.	2.0	31
36	EVOLUTION OF INSECT METAMORPHOSIS: A MICROARRAY-BASED STUDY OF LARVAL AND ADULT GENE EXPRESSION IN THE ANT CAMPONOTUS FESTINATUS. Evolution; International Journal of Organic Evolution, 2005, 59, 858-870.	1.1	30

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37	DNA Methylation and Chromatin Organization in Insects: Insights from the Ant Camponotus floridanus. Genome Biology and Evolution, 2015, 7, 931-942.	1.1	30
38	Gene duplication and the evolution of phenotypic diversity in insect societies. Evolution; International Journal of Organic Evolution, 2017, 71, 2871-2884.	1.1	30
39	Cytonuclear Theory for Haplodiploid Species and X-Linked Genes. I. Hardy-Weinberg Dynamics and Continent-Island, Hybrid Zone Models. Genetics, 1997, 147, 321-338.	1.2	30
40	Effects of a Single Gene on Worker and Male Body Mass in the Fire Ant Solenopsis invicta (Hymenoptera: Formicidae). Annals of the Entomological Society of America, 1999, 92, 563-570.	1.3	29
41	Colony social structure in native and invasive populations of the social wasp Vespula pensylvanica. Biological Invasions, 2014, 16, 283-294.	1.2	28
42	Effects of worker size on the dynamics of fire ant tunnel construction. Journal of the Royal Society Interface, 2012, 9, 3312-3322.	1.5	26
43	Relationship of queen number and worker size in polygyne colonies of the fire antSolenopsis invicta. Insectes Sociaux, 1996, 43, 303-307.	0.7	24
44	Resource allocation in a social wasp: effects of breeding system and life cycle on reproductive decisions. Molecular Ecology, 2009, 18, 2908-2920.	2.0	24
45	A TEST OF QUEEN RECRUITMENT MODELS USING NUCLEAR AND MITOCHONDRIAL MARKERS IN THE FIRE ANTSOLENOPSIS INVICTA. Evolution; International Journal of Organic Evolution, 1998, 52, 1416-1422.	1.1	23
46	A FORMAL ASSESSMENT OF GENE FLOW AND SELECTION IN THE FIRE ANT SOLENOPSIS INVICTA. Evolution; International Journal of Organic Evolution, 2000, 54, 606-616.	1.1	23
47	Nestmate relatedness and population genetic structure of the Australian social crab spider Diaea ergandros (Araneae: Thomisidae). Molecular Ecology, 2008, 11, 2307-2316.	2.0	23
48	Environmental and genetic influences on queen and worker body size in the social wasp Vespula maculifrons. Insectes Sociaux, 2010, 57, 53-65.	0.7	23
49	Genetic structure and breeding system in a social wasp and its social parasite. BMC Evolutionary Biology, 2008, 8, 239.	3.2	22
50	Relationship of queen number and queen relatedness in multiple-queen colonies of the fire ant Solenopsis invicta. Ecological Entomology, 1997, 22, 150-157.	1.1	20
51	CYTONUCLEAR THEORY FOR HAPLODIPLOID SPECIES AND X-LINKED GENES. II. STEPPING-STONE MODELS OF GENE FLOW AND APPLICATION TO A FIRE ANT HYBRID ZONE. Evolution; International Journal of Organic Evolution, 1998, 52, 1423-1440.	1.1	20
52	Unusual Behavior of Polygyne Fire Ant Queens on Nuptial Flights. Journal of Insect Behavior, 2000, 13, 455-468.	0.4	19
53	Queen recruitment in a multiple-queen population of the fire ant Solenopsis invicta. Behavioral Ecology, 1999, 10, 428-435.	1.0	18
54	Association between caste and genotype in the termite Mastotermes darwiniensis Froggatt (Isoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.1	18

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55	Reproduction and Recruitment in Perennial Colonies of the Introduced Wasp Vespula germanica. , 2001, 92, 346-349.		17
56	The impact of epigenetic information on genome evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200114.	1.8	17
57	Genetic and morphological variation over space and time in the invasive fire ant Solenopsis invicta. Biological Invasions, 2007, 9, 571-584.	1.2	16
58	Mating Success in the Polyandrous Social Wasp Vespula maculifrons. Ethology, 2008, 114, 340-350.	0.5	16
59	Gene Duplication in the Honeybee: Patterns of DNA Methylation, Gene Expression, and Genomic Environment. Molecular Biology and Evolution, 2020, 37, 2322-2331.	3.5	16
60	Epigenetics in Social Insects. Advances in Insect Physiology, 2015, 48, 227-269.	1.1	15
61	Evolutionary variation in gene expression is associated with dimorphism in eusocial vespid wasps. Insect Molecular Biology, 2010, 19, 641-652.	1.0	14
62	Kin selection, genomics and caste-antagonistic pleiotropy. Biology Letters, 2013, 9, 20130309.	1.0	14
63	Population genetic structure of the predatory, social wasp <scp>V</scp>espula pensylvanica in its native and invasive range. Ecology and Evolution, 2015, 5, 5573-5587.	0.8	14
64	A Test of Queen Recruitment Models Using Nuclear and Mitochondrial Markers in the Fire Ant Solenopsis invicta. Evolution; International Journal of Organic Evolution, 1998, 52, 1416.	1.1	12
65	Evolution of insect metamorphosis: a microarray-based study of larval and adult gene expression in the ant Camponotus festinatus. Evolution; International Journal of Organic Evolution, 2005, 59, 858-70.	1.1	12
66	BREEDING SYSTEM, COLONY STRUCTURE, AND GENETIC DIFFERENTIATION IN THE CAMPONOTUS FESTINATUS SPECIES COMPLEX OF CARPENTER ANTS. Evolution; International Journal of Organic Evolution, 2005, 59, 2185-2199.	1.1	11
67	Detecting selection on morphological traits in social insect castes: the case of the social wasp Vespula maculifrons. Biological Journal of the Linnean Society, 2010, 101, 93-102.	0.7	11
68	Microsatellite markers in the primitive termite Mastotermes darwiniensis. Molecular Ecology Notes, 2001, 1, 250-251.	1.7	10
69	Queen Dispersal Strategies in the Multiple-Queen Form of the Fire Ant Solenopsis invicta. American Naturalist, 1999, 153, 660.	1.0	9
70	Irregular brood patterns and worker reproduction in social wasps. Die Naturwissenschaften, 2007, 94, 1011-1014.	0.6	8
71	Genome composition, caste, and molecular evolution in eusocial insects. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E445-E446.	3.3	5
72	Temporal Analysis of Effective Population Size and Mating System in a Social Wasp. Journal of Heredity, 2021, 112, 626-634.	1.0	5

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73	Non-kin Cooperation in Ants. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	5
74	Clines Maintained by Overdominant Selection in Hybrid Zones. Hereditas, 2004, 134, 161-169.	0.5	4
75	Genetic diversity and sex ratio of naked mole rat, Heterocephalus glaber, zoo populations. Zoo Biology, 2018, 37, 171-182.	0.5	3
76	Social structure of perennialVespula squamosawasp colonies. Ecology and Evolution, 2022, 12, e8569.	0.8	3
77	Breeding system, colony structure, and genetic differentiation in the Camponotus festinatus species complex of carpenter ants. Evolution; International Journal of Organic Evolution, 2005, 59, 2185-99.	1.1	3
78	Toward Task Capable Active Matter: Learning to Avoid Clogging in Confined Collectives via Collisions. Frontiers in Physics, 0, 10, .	1.0	3
79	Editorial overview: Social insects as invasive species. Current Opinion in Insect Science, 2021, 46, iii-v.	2.2	2
80	Ross H. Crozier (1943â€“2009). Entomologica Americana, 2010, 116, 92-94.	0.2	1