

Seirian Sumner

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,098
citations

172457

29
h-index

175258

52
g-index

78
all docs

78
docs citations

78
times ranked

3165
citing authors

#	ARTICLE	IF	CITATIONS
1	The genomes of two key bumblebee species with primitive eusocial organization. <i>Genome Biology</i> , 2015, 16, 76.	8.8	330
2	Molecular signatures of plastic phenotypes in two eusocial insect species with simple societies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13970-13975.	7.1	192
3	Worker caste polymorphism has a genetic basis in <i>Acromyrmex</i> leaf-cutting ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9394-9397.	7.1	172
4	Bumblebee family lineage survival is enhanced in high-quality landscapes. <i>Nature</i> , 2017, 543, 547-549.	27.8	159
5	Transcriptome analyses of primitively eusocial wasps reveal novel insights into the evolution of sociality and the origin of alternative phenotypes. <i>Genome Biology</i> , 2013, 14, R20.	9.6	139
6	Insurance-based advantage to helpers in a tropical hover wasp. <i>Nature</i> , 2000, 404, 869-871.	27.8	109
7	Radio-Tagging Technology Reveals Extreme Nest-Drifting Behavior in a Eusocial Insect. <i>Current Biology</i> , 2007, 17, 140-145.	3.9	108
8	Effects of habitat composition and landscape structure on worker foraging distances of five bumble bee species. <i>Ecological Applications</i> , 2016, 26, 726-739.	3.8	104
9	Why we love bees and hate wasps. <i>Ecological Entomology</i> , 2018, 43, 836-845.	2.2	90
10	The evolution of social parasitism in <i>Acromyrmex</i> leaf-cutting ants: a test of Emery's rule. <i>Insectes Sociaux</i> , 2004, 51, 37-42.	1.2	81
11	Group size, queuing and helping decisions in facultatively eusocial hover wasps. <i>Behavioral Ecology and Sociobiology</i> , 1999, 45, 378-385.	1.4	79
12	Differential gene expression and phenotypic plasticity in behavioural castes of the primitively eusocial wasp, <i>Polistes canadensis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 19-26.	2.6	77
13	Ecosystem services provided by aculeate wasps. <i>Biological Reviews</i> , 2021, 96, 1645-1675.	10.4	75
14	Ant parasite queens revert to mating singly. <i>Nature</i> , 2004, 428, 35-36.	27.8	73
15	Colony size predicts division of labour in attine ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141411.	2.6	69
16	Differential gene expression in queen–worker caste determination in bumble-bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1145-1152.	2.6	66
17	Ecological constraints on independent nesting in facultatively eusocial hover wasps. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 973-977.	2.6	63
18	Polyphenism in social insects: insights from a transcriptome-wide analysis of gene expression in the life stages of the key pollinator, <i>Bombus terrestris</i> . <i>BMC Genomics</i> , 2011, 12, 623.	2.8	63

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19	High reproductive skew in tropical hover wasps. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 179-186.	2.6	55
20	Shifting behaviour: epigenetic reprogramming in eusocial insects. <i>Current Opinion in Cell Biology</i> , 2012, 24, 367-373.	5.4	54
21	The importance of genomic novelty in social evolution. <i>Molecular Ecology</i> , 2014, 23, 26-28.	3.9	54
22	Pathways to immunity: temporal dynamics of the bumblebee (<i>Bombus terrestris</i>) immune response against a trypanosomal gut parasite. <i>Insect Molecular Biology</i> , 2011, 20, 529-540.	2.0	48
23	Deconstructing Superorganisms and Societies to Address Big Questions in Biology. <i>Trends in Ecology and Evolution</i> , 2017, 32, 861-872.	8.7	45
24	Reproductive constraints, direct fitness and indirect fitness benefits explain helping behaviour in the primitively eusocial wasp, <i>Polistes canadensis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1721-1728.	2.6	43
25	Extensive Local Gene Duplication and Functional Divergence among Paralogs in Atlantic Salmon. <i>Genome Biology and Evolution</i> , 2014, 6, 1790-1805.	2.5	43
26	Social wasps are effective biocontrol agents of key lepidopteran crop pests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191676.	2.6	42
27	Fine-scale spatial genetic structure of common and declining bumble bees across an agricultural landscape. <i>Molecular Ecology</i> , 2014, 23, 3384-3395.	3.9	41
28	Altruism in a volatile world. <i>Nature</i> , 2018, 555, 359-362.	27.8	41
29	Evidence for differential selection and potential adaptive evolution in the worker caste of an inquiline social parasite. <i>Behavioral Ecology and Sociobiology</i> , 2003, 54, 256-263.	1.4	34
30	Infection by the castrating parasitic nematode <i>Sphaerularia bombi</i> changes gene expression in <i>Bombus terrestris</i> bumblebee queens. <i>Insect Molecular Biology</i> , 2020, 29, 170-182.	2.0	32
31	Mapping species distributions in 2 weeks using citizen science. <i>Insect Conservation and Diversity</i> , 2019, 12, 382-388.	3.0	29
32	The molecular basis of socially mediated phenotypic plasticity in a eusocial paper wasp. <i>Nature Communications</i> , 2021, 12, 775.	12.8	29
33	Sentinel dominance status influences forager use of social information. <i>Behavioral Ecology</i> , 2016, 27, 1053-1060.	2.2	27
34	Patterns of longevity across a sociality gradient in vespid wasps. <i>Current Opinion in Insect Science</i> , 2016, 16, 28-35.	4.4	26
35	Performance of human groups in social foraging: the role of communication in consensus decision making. <i>Biology Letters</i> , 2011, 7, 237-240.	2.3	24
36	WASP nest: a worldwide assessment of social Polistine nesting behavior. <i>Ecology</i> , 2018, 99, 2405-2405.	3.2	24

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37	Inquiline social parasites as tools to unlock the secrets of insect sociality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180193.	4.0	24
38	The adaptive significance of inquiline parasite workers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1315-1322.	2.6	23
39	Colony genetic structure in a facultatively eusocial hover wasp. <i>Behavioral Ecology</i> , 2006, 17, 873-880.	2.2	22
40	Evidence of a novel immune responsive protein in the Hymenoptera. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 968-981.	2.7	22
41	Social parasitism and the molecular basis of phenotypic evolution. <i>Frontiers in Genetics</i> , 2015, 6, 32.	2.3	21
42	Detection and Replication of Moku Virus in Honey Bees and Social Wasps. <i>Viruses</i> , 2020, 12, 607.	3.3	20
43	A molecular concept of caste in insect societies. <i>Current Opinion in Insect Science</i> , 2018, 25, 42-50.	4.4	19
44	Marketing insects: can exploiting a commercial framework help promote undervalued insect species?. <i>Insect Conservation and Diversity</i> , 2020, 13, 214-218.	3.0	17
45	Neurogenomic Signatures of Successes and Failures in Life-History Transitions in a Key Insect Pollinator. <i>Genome Biology and Evolution</i> , 2017, 9, 3059-3072.	2.5	14
46	A century of social wasp occupancy trends from natural history collections: spatiotemporal resolutions have little effect on model performance. <i>Insect Conservation and Diversity</i> , 2021, 14, 543-555.	3.0	14
47	Social wasps as models to study the major evolutionary transition to superorganismality. <i>Current Opinion in Insect Science</i> , 2018, 28, 26-32.	4.4	12
48	High indirect fitness benefits for helpers across the nesting cycle in the tropical paper wasp <i>Polistes canadensis</i> . <i>Molecular Ecology</i> , 2019, 28, 3271-3284.	3.9	12
49	Signal detection: applying analysis methods from psychology to animal behaviour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190480.	4.0	12
50	Long live the wasp: adult longevity in captive colonies of the eusocial paper wasp <i>Polistes canadensis</i> (L.). <i>PeerJ</i> , 2015, 3, e848.	2.0	12
51	Little effect of seasonal constraints on population genetic structure in eusocial paper wasps. <i>Ecology and Evolution</i> , 2012, 2, 2615-2624.	1.9	11
52	Queen succession conflict in the paper wasp <i>Polistes dominula</i> is mitigated by age-based convention. <i>Behavioral Ecology</i> , 2020, 31, 992-1002.	2.2	11
53	Diminishing returns drive altruists to help extended family. <i>Nature Ecology and Evolution</i> , 2021, 5, 468-479.	7.8	9
54	Invasive ants take and squander native seeds: implications for native plant communities. <i>Biological Invasions</i> , 2019, 21, 451-466.	2.4	8

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55	Actions speak louder than words in socially foraging human groups. <i>Communicative and Integrative Biology</i> , 2011, 4, 755-757.	1.4	7
56	Patterns of reproductive differentiation and reproductive plasticity in the major evolutionary transition to superorganismality. <i>Current Opinion in Insect Science</i> , 2019, 34, 40-47.	4.4	7
57	Social Evolution: Reincarnation, Free-Riding and Inexplicable Modes of Reproduction. <i>Current Biology</i> , 2008, 18, R206-R207.	3.9	6
58	Behavioural and neurogenomic responses of host workers to social parasite invasion in a social insect. <i>Insectes Sociaux</i> , 2020, 67, 295-308.	1.2	6
59	Evolutionary and Ecological Pressures Shaping Social Wasps Collective Defenses. <i>Annals of the Entomological Society of America</i> , 2021, 114, 581-595.	2.5	6
60	Highly polymorphic microsatellite loci in the facultatively eusocial hover wasp, <i>Liostenogaster flavolineata</i> and cross-species amplification. <i>Molecular Ecology Notes</i> , 2001, 1, 229-231.	1.7	5
61	Social density processes regulate the functioning and performance of foraging human teams. <i>Scientific Reports</i> , 2015, 5, 18260.	3.3	5
62	“Citizen identification”™: online learning supports highly accurate species identification for insect-focused citizen science. <i>Insect Conservation and Diversity</i> , 2021, 14, 862-867.	3.0	5
63	High reproductive skew in the Neotropical paper wasp <i>Polistes lanio</i> . <i>Insectes Sociaux</i> , 2020, 67, 451-456.	1.2	3
64	Hormone mediated dispersal and sexual maturation in males of the social paper wasp <i>Polistes lanio</i> . <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	3
65	Paper Wasps (<i>Polistes</i>). , 2021, , 697-709.		2
66	Contrasting responses of native ant communities to invasion by an ant invader, <i>Linepithema humile</i> . <i>Biological Invasions</i> , 2021, 23, 2553-2571.	2.4	2
67	Paper Wasps (<i>Polistes</i>). , 2020, , 1-13.		2
68	A Novel Method of Assessing Dominance Hierarchies Shows Nuance, Linearity and Stability in the Dinosaur Ant <i>Dinoponera quadriceps</i> . <i>Ethology</i> , 2014, 120, 1073-1080.	1.1	1
69	Effects of habitat composition and landscape structure on worker foraging distances of five bumblebee species. , 2015, , 150819033522003.		0
70	DNA barcodes and new primers for nature’s pest controllers: the social wasps. <i>Genome</i> , 2021, 64, 581-590.	2.0	0
71	Multi-level social organization and nest-drifting behaviour in a eusocial insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210275.	2.6	0
72	Do Not Swat the Wasp!. <i>Frontiers for Young Minds</i> , 0, 7, .	0.8	0