

Luke Holman

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,604
citations

279701

23
h-index

175177

52
g-index

60
all docs

60
docs citations

60
times ranked

4617
citing authors

#	ARTICLE	IF	CITATIONS
1	The Extent and Consequences of P-Hacking in Science. PLoS Biology, 2015, 13, e1002106.	2.6	818
2	The gender gap in science: How long until women are equally represented?. PLoS Biology, 2018, 16, e2004956.	2.6	444
3	The Ecology and Evolutionary Dynamics of Meiotic Drive. Trends in Ecology and Evolution, 2016, 31, 315-326.	4.2	305
4	Conserved Class of Queen Pheromones Stops Social Insect Workers from Reproducing. Science, 2014, 343, 287-290.	6.0	298
5	Identification of an ant queen pheromone regulating worker sterility. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3793-3800.	1.2	179
6	Evidence of Experimental Bias in the Life Sciences: Why We Need Blind Data Recording. PLoS Biology, 2015, 13, e1002190.	2.6	170
7	The consequences of polyandry for population viability, extinction risk and conservation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120053.	1.8	106
8	Meta-analytic evidence that sexual selection improves population fitness. Nature Communications, 2019, 10, 2017.	5.8	85
9	A Sterile Sperm Caste Protects Brother Fertile Sperm from Female-Mediated Death in <i>Drosophila pseudoobscura</i> . Current Biology, 2008, 18, 292-296.	1.8	83
10	COSTS AND CONSTRAINTS CONSPIRE TO PRODUCE HONEST SIGNALING: INSIGHTS FROM AN ANT QUEEN PHEROMONE. Evolution; International Journal of Organic Evolution, 2012, 66, 2094-2105.	1.1	69
11	The evolution of queen pheromones in the ant genus <i>Lasius</i> . Journal of Evolutionary Biology, 2013, 26, 1549-1558.	0.8	64
12	Researchers collaborate with same-gendered colleagues more often than expected across the life sciences. PLoS ONE, 2019, 14, e0216128.	1.1	59
13	Selfish strategies and honest signalling: reproductive conflicts in ant queen associations. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2007-2015.	1.2	58
14	Terminal investment in multiple sexual signals: immune-challenged males produce more attractive pheromones. Functional Ecology, 2012, 26, 20-28.	1.7	52
15	Sperm viability staining in ecology and evolution: potential pitfalls. Behavioral Ecology and Sociobiology, 2009, 63, 1679-1688.	0.6	51
16	Evolution of Social Insect Polyphenism Facilitated by the Sex Differentiation Cascade. PLoS Genetics, 2016, 12, e1005952.	1.5	48
17	Resistance to natural and synthetic gene drive systems. Journal of Evolutionary Biology, 2020, 33, 1345-1360.	0.8	43
18	Wax On, Wax Off: Nest Soil Facilitates Indirect Transfer of Recognition Cues between Ant Nestmates. PLoS ONE, 2011, 6, e19435.	1.1	37

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19	Crozier's paradox revisited: maintenance of genetic recognition systems by disassortative mating. <i>BMC Evolutionary Biology</i> , 2013, 13, 211.	3.2	33
20	Coevolutionary dynamics of polyandry and sex-linked meiotic drive. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 709-720.	1.1	33
21	Comparative transcriptomics of social insect queen pheromones. <i>Nature Communications</i> , 2019, 10, 1593.	5.8	32
22	The effects of stress and sex on selection, genetic covariance, and the evolutionary response. <i>Journal of Evolutionary Biology</i> , 2017, 30, 1898-1909.	0.8	30
23	Highly specific responses to queen pheromone in three <i>Lasius</i> ant species. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 387-392.	0.6	29
24	Bumblebee size polymorphism and worker response to queen pheromone. <i>PeerJ</i> , 2014, 2, e604.	0.9	28
25	Sexual selection expedites the evolution of pesticide resistance. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 2746-2751.	1.1	25
26	The evolution of genomic imprinting: costs, benefits and long-term consequences. <i>Biological Reviews</i> , 2014, 89, 568-587.	4.7	24
27	Random sperm use and genetic effects on worker caste fate in <i>Atta colombica</i> leaf-cutting ants. <i>Molecular Ecology</i> , 2011, 20, 5092-5102.	2.0	23
28	Queen pheromones and reproductive division of labor: a meta-analysis. <i>Behavioral Ecology</i> , 0, , .	1.0	22
29	Conditional helping and evolutionary transitions to eusociality and cooperative breeding. <i>Behavioral Ecology</i> , 2014, 25, 1173-1182.	1.0	21
30	Queen pheromones modulate DNA methyltransferase activity in bee and ant workers. <i>Biology Letters</i> , 2016, 12, 20151038.	1.0	21
31	Queen pheromones. <i>Communicative and Integrative Biology</i> , 2010, 3, 558-560.	0.6	20
32	Genetic Constraints on Dishonesty and Caste Dimorphism in an Ant. <i>American Naturalist</i> , 2013, 181, 161-170.	1.0	20
33	Female preferences for timing in a fiddler crab with synchronous courtship waving displays. <i>Animal Behaviour</i> , 2014, 98, 35-39.	0.8	20
34	Assessing the alignment of sexual and natural selection using radiomutagenized seed beetles. <i>Journal of Evolutionary Biology</i> , 2015, 28, 1039-1048.	0.8	20
35	Building a new research framework for social evolution: intralocus caste antagonism. <i>Biological Reviews</i> , 2018, 93, 1251-1268.	4.7	18
36	Bet hedging via multiple mating: A meta-analysis. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 62-71.	1.1	17

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37	An X-linked meiotic drive allele has strong, recessive fitness costs in female <i>Drosophila pseudoobscura</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20192038.	1.2	17
38	Are queen ants inhibited by their own pheromone? Regulation of productivity via negative feedback. <i>Behavioral Ecology</i> , 2013, 24, 380-385.	1.0	16
39	Polyandrous females found fitter populations. <i>Journal of Evolutionary Biology</i> , 2014, 27, 1948-1955.	0.8	15
40	Caste Load and the Evolution of Reproductive Skew. <i>American Naturalist</i> , 2014, 183, 84-95.	1.0	14
41	Evolution of female choice under intralocus sexual conflict and genotype-by-environment interactions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170425.	1.8	14
42	Evolutionary simulations of Z-linked suppression gene drives. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191070.	1.2	14
43	Conserved queen pheromones in bumblebees: a reply to Amsalem et al.. <i>PeerJ</i> , 2017, 5, e3332.	0.9	13
44	Male-biased sexual selection, but not sexual dichromatism, predicts speciation in birds. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 931-944.	1.1	12
45	Even more functions of sperm RNA: a response to Hosken and Hodgson. <i>Trends in Ecology and Evolution</i> , 2014, 29, 648-649.	4.2	11
46	Fitness consequences of the selfish supergene <i>Segregation Distorter</i> . <i>Journal of Evolutionary Biology</i> , 2020, 33, 89-100.	0.8	9
47	Cuticular lipids correlate with age and insemination status in queen honeybees. <i>Insectes Sociaux</i> , 2014, 61, 337-345.	0.7	7
48	Mother's curse and indirect genetic effects: Do males matter to mitochondrial genome evolution?. <i>Journal of Evolutionary Biology</i> , 2020, 33, 189-201.	0.8	7
49	Sibling rivalry versus mother's curse: can kin competition facilitate a response to selection on male mitochondria?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200575.	1.2	7
50	Bet-hedging via polyandry: a comment on "Mating portfolios: bet-hedging, sexual selection and female multiple mating". <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150346.	1.2	5
51	Social immunity in the honey bee: do immune-challenged workers enter enforced or self-imposed exile?. <i>Behavioral Ecology and Sociobiology</i> , 2022, 76, 1.	0.6	5
52	A comment on "The adaptive value of gluttony: predators mediate the life history tradeoffs of satiation threshold" by Pruitt & Krauel (2010). <i>Journal of Evolutionary Biology</i> , 2021, 34, 1989-1993.	0.8	4
53	Experimental sexual selection affects the evolution of physiological and life-history traits. <i>Journal of Evolutionary Biology</i> , 2022, 35, 742-751.	0.8	3
54	Onwards and upwards: a response to comments on Holman. <i>Behavioral Ecology</i> , 0, , .	1.0	0

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55	Sexual selection can partly explain low frequencies of <i>Segregation Distorter</i> alleles. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211190.	1.2	0