

Sarah E Reece

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,895
citations

109321

35
h-index

149698

56
g-index

101
all docs

101
docs citations

101
times ranked

3774
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	27.8	339
2	Sex ratio adjustment and kin discrimination in malaria parasites. <i>Nature</i> , 2008, 453, 609-614.	27.8	198
3	Sex ratios. <i>Heredity</i> , 2002, 88, 117-124.	2.6	132
4	Evolution of apoptosis-like programmed cell death in unicellular protozoan parasites. <i>Parasites and Vectors</i> , 2011, 4, 44.	2.5	122
5	Thermal conditions in nests of loggerhead turtles: further evidence suggesting female skewed sex ratios of hatchling production in the Mediterranean. <i>Journal of Experimental Marine Biology and Ecology</i> , 2001, 263, 45-63.	1.5	102
6	Sex Ratios under Asymmetrical Local Mate Competition: Theory and a Test with Parasitoid Wasps. <i>American Naturalist</i> , 2005, 166, 301-316.	2.1	100
7	Fitness costs of disrupting circadian rhythms in malaria parasites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2429-2436.	2.6	100
8	SYNTHESIS: Plastic parasites: sophisticated strategies for survival and reproduction?. <i>Evolutionary Applications</i> , 2009, 2, 11-23.	3.1	98
9	Competition and the Evolution of Reproductive Restraint in Malaria Parasites. <i>American Naturalist</i> , 2011, 177, 358-367.	2.1	91
10	Daily Rhythms in Mosquitoes and Their Consequences for Malaria Transmission. <i>Insects</i> , 2016, 7, 14.	2.2	84
11	The Cinderella syndrome: why do malaria-infected cells burst at midnight?. <i>Trends in Parasitology</i> , 2013, 29, 10-16.	3.3	83
12	Evolution of gametocyte sex ratios in malaria and related apicomplexan (protozoan) parasites. <i>Trends in Parasitology</i> , 2001, 17, 525-531.	3.3	81
13	Functional Characterization of the Plasmodium falciparum and P. berghei Homologues of Macrophage Migration Inhibitory Factor. <i>Infection and Immunity</i> , 2007, 75, 1116-1128.	2.2	79
14	Gametocytes: insights gained during a decade of molecular monitoring. <i>Trends in Parasitology</i> , 2008, 24, 525-530.	3.3	77
15	Stress and sex in malaria parasites. <i>Evolution, Medicine and Public Health</i> , 2013, 2013, 135-147.	2.5	74
16	Incubation periods and sex ratios of green turtles: highly female biased hatchling production in the eastern Mediterranean. <i>Marine Ecology - Progress Series</i> , 2000, 202, 273-281.	1.9	73
17	The Meaning of Death: Evolution and Ecology of Apoptosis in Protozoan Parasites. <i>PLoS Pathogens</i> , 2011, 7, e1002320.	4.7	72
18	High-speed holographic microscopy of malaria parasites reveals ambidextrous flagellar waveforms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18769-18774.	7.1	66

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19	Adaptive noise. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131104.	2.6	65
20	The evolutionary ecology of circadian rhythms in infection. <i>Nature Ecology and Evolution</i> , 2019, 3, 552-560.	7.8	63
21	Quantification of female and male <i>Plasmodium falciparum</i> gametocytes by reverse transcriptase quantitative PCR. <i>Molecular and Biochemical Parasitology</i> , 2015, 199, 29-33.	1.1	59
22	The Life and Times of Parasites: Rhythms in Strategies for Within-host Survival and Between-host Transmission. <i>Journal of Biological Rhythms</i> , 2017, 32, 516-533.	2.6	58
23	Kin discrimination and sex ratios in a parasitoid wasp. <i>Journal of Evolutionary Biology</i> , 2003, 17, 208-216.	1.7	56
24	Host cell preference and variable transmission strategies in malaria parasites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 511-517.	2.6	51
25	Sex and Death: The Effects of Innate Immune Factors on the Sexual Reproduction of Malaria Parasites. <i>PLoS Pathogens</i> , 2011, 7, e1001309.	4.7	51
26	War and peace: social interactions in infections. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130365.	4.0	50
27	Adaptive plasticity in the gametocyte conversion rate of malaria parasites. <i>PLoS Pathogens</i> , 2018, 14, e1007371.	4.7	50
28	Plasticity in parasite phenotypes: evolutionary and ecological implications for disease. <i>Future Microbiology</i> , 2012, 7, 17-24.	2.0	49
29	Quantitative Analysis of Mechanisms That Govern Red Blood Cell Age Structure and Dynamics during Anaemia. <i>PLoS Computational Biology</i> , 2009, 5, e1000416.	3.2	48
30	Timing of host feeding drives rhythms in parasite replication. <i>PLoS Pathogens</i> , 2018, 14, e1006900.	4.7	48
31	Wasp sex ratios when females on a patch are related. <i>Animal Behaviour</i> , 2004, 68, 331-336.	1.9	45
32	Even more extreme fertility insurance and the sex ratios of protozoan blood parasites. <i>Journal of Theoretical Biology</i> , 2003, 223, 515-521.	1.7	43
33	Stress, drugs and the evolution of reproductive restraint in malaria parasites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3123-3129.	2.6	41
34	Malaria parasites regulate intra-erythrocytic development duration via serpentine receptor 10 to coordinate with host rhythms. <i>Nature Communications</i> , 2020, 11, 2763.	12.8	41
35	BRIDGING SCALES IN THE EVOLUTION OF INFECTIOUS DISEASE LIFE HISTORIES: APPLICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3298-3310.	2.3	40
36	Lethal combat over limited resources: testing the importance of competitors and kin. <i>Behavioral Ecology</i> , 2011, 22, 923-931.	2.2	38

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37	Development of reverse-transcription PCR techniques to analyse the density and sex ratio of gametocytes in genetically diverse <i>Plasmodium chabaudi</i> infections. <i>Molecular and Biochemical Parasitology</i> , 2007, 156, 199-209.	1.1	36
38	Malaria and trypanosome transmission: different parasites, same rules?. <i>Trends in Parasitology</i> , 2011, 27, 197-203.	3.3	36
39	Importance of spatio-temporal data for predicting the effects of climate change on marine turtle sex ratios. <i>Marine Ecology - Progress Series</i> , 2013, 488, 267-274.	1.9	34
40	Molecular evolution and phylogenetics of rodent malaria parasites. <i>BMC Evolutionary Biology</i> , 2012, 12, 219.	3.2	33
41	Facilitation through altered resource availability in a mixed-species rodent malaria infection. <i>Ecology Letters</i> , 2016, 19, 1041-1050.	6.4	33
42	Does the drug sensitivity of malaria parasites depend on their virulence?. <i>Malaria Journal</i> , 2008, 7, 257.	2.3	32
43	Lethal combat and sex ratio evolution in a parasitoid wasp. <i>Behavioral Ecology</i> , 2007, 18, 709-715.	2.2	31
44	Disrupting rhythms in <i>Plasmodium chabaudi</i> : costs accrue quickly and independently of how infections are initiated. <i>Malaria Journal</i> , 2013, 12, 372.	2.3	31
45	Hybridization and pre-zygotic reproductive barriers in <i>Plasmodium</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20143027.	2.6	31
46	Periodic Parasites and Daily Host Rhythms. <i>Cell Host and Microbe</i> , 2020, 27, 176-187.	11.0	31
47	Adaptive periodicity in the infectivity of malaria gametocytes to mosquitoes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181876.	2.6	30
48	Sex ratios in the rodent malaria parasite, <i>Plasmodium chabaudi</i> . <i>Parasitology</i> , 2003, 127, 419-425.	1.5	29
49	Costs of crowding for the transmission of malaria parasites. <i>Evolutionary Applications</i> , 2013, 6, 617-629.	3.1	29
50	Lethal male-male combat in the parasitoid <i>Melittobia acasta</i> : are size and competitive environment important?. <i>Animal Behaviour</i> , 2007, 74, 1163-1169.	1.9	28
51	Competition between relatives and the evolution of dispersal in a parasitoid wasp. <i>Journal of Evolutionary Biology</i> , 2010, 23, 1374-1385.	1.7	28
52	Associations between Season and Gametocyte Dynamics in Chronic <i>Plasmodium falciparum</i> Infections. <i>PLoS ONE</i> , 2016, 11, e0166699.	2.5	28
53	Virulence, drug sensitivity and transmission success in the rodent malaria, <i>Plasmodium chabaudi</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4677-4685.	2.6	27
54	Causes of Variation in Malaria Infection Dynamics: Insights from Theory and Data. <i>American Naturalist</i> , 2011, 178, E174-E188.	2.1	26

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55	The Problem of Auto-Correlation in Parasitology. <i>PLoS Pathogens</i> , 2012, 8, e1002590.	4.7	26
56	Plasticity in transmission strategies of the malaria parasite, <i>Plasmodium chabaudi</i> : environmental and genetic effects. <i>Evolutionary Applications</i> , 2013, 6, 365-376.	3.1	26
57	Host circadian rhythms are disrupted during malaria infection in parasite genotype-specific manners. <i>Scientific Reports</i> , 2019, 9, 10905.	3.3	26
58	Investigating the evolution of apoptosis in malaria parasites: the importance of ecology. <i>Parasites and Vectors</i> , 2010, 3, 105.	2.5	25
59	Time-of-day of blood-feeding: effects on mosquito life history and malaria transmission. <i>Parasites and Vectors</i> , 2019, 12, 301.	2.5	25
60	Information use in space and time: sex allocation behaviour in the parasitoid wasp <i>Nasonia vitripennis</i> . <i>Animal Behaviour</i> , 2007, 73, 971-977.	1.9	22
61	Transformation of the rodent malaria parasite <i>Plasmodium chabaudi</i> and generation of a stable fluorescent line PcGFPCON. <i>Malaria Journal</i> , 2008, 7, 183.	2.3	22
62	Phenotypic plasticity in reproductive effort: malaria parasites respond to resource availability. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171229.	2.6	22
63	The private life of malaria parasites: Strategies for sexual reproduction. <i>Molecular and Biochemical Parasitology</i> , 2021, 244, 111375.	1.1	19
64	The Challenge of Quantifying Synchrony in Malaria Parasites. <i>Trends in Parasitology</i> , 2019, 35, 341-355.	3.3	16
65	Malaria sex ratios. <i>Trends in Ecology and Evolution</i> , 2000, 15, 259-260.	8.7	15
66	Malaria Makes the Most of Mealtimes. <i>Cell Host and Microbe</i> , 2018, 23, 695-697.	11.0	15
67	Automated detection and staging of malaria parasites from cytological smears using convolutional neural networks. <i>Biological Imaging</i> , 2021, 1, e2.	2.2	15
68	Host circadian clocks do not set the schedule for the within-host replication of malaria parasites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200347.	2.6	14
69	Strain-specific immunity induced by immunization with pre-erythrocytic stages of <i>Plasmodium chabaudi</i> . <i>Parasite Immunology</i> , 2011, 33, 73-78.	1.5	13
70	Rodent malaria parasites <i>Plasmodium chabaudi</i> and <i>P. vinckei</i> do not increase their rates of gametocytogenesis in response to mosquito probing. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2397-2402.	2.6	12
71	Information use and plasticity in the reproductive decisions of malaria parasites. <i>Malaria Journal</i> , 2014, 13, 115.	2.3	12
72	Virginity and the clutch size behavior of a parasitoid wasp where mothers mate their sons. <i>Behavioral Ecology</i> , 2010, 21, 730-738.	2.2	11

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73	Plasticity and genetic variation in traits underpinning asexual replication of the rodent malaria parasite, <i>Plasmodium chabaudi</i> . <i>Malaria Journal</i> , 2019, 18, 222.	2.3	11
74	Altered life history strategies protect malaria parasites against drugs. <i>Evolutionary Applications</i> , 2018, 11, 442-455.	3.1	10
75	<i>Toxoplasma gondii</i> , sex and premature rejection. <i>Trends in Parasitology</i> , 2003, 19, 155-157.	3.3	8
76	Drug treatment of malaria infections can reduce levels of protection transferred to offspring via maternal immunity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 2487-2496.	2.6	8
77	Mistimed malaria parasites re-synchronize with host feeding-fasting rhythms by shortening the duration of intra-erythrocytic development. <i>Parasite Immunology</i> , 2022, 44, e12898.	1.5	8
78	Why are male malaria parasites in such a rush?. <i>Evolution, Medicine and Public Health</i> , 2013, 2013, 3-13.	2.5	7
79	Testing possible causes of gametocyte reduction in temporally out-of-synch malaria infections. <i>Malaria Journal</i> , 2020, 19, 17.	2.3	7
80	Daily rhythms of both host and parasite affect antimalarial drug efficacy. <i>Evolution, Medicine and Public Health</i> , 2021, 9, 208-219.	2.5	7
81	Life in cells, hosts, and vectors: Parasite evolution across scales. <i>Infection, Genetics and Evolution</i> , 2013, 13, 344-347.	2.3	6
82	The role of models in translating within-host dynamics to parasite evolution. <i>Parasitology</i> , 2016, 143, 905-914.	1.5	6
83	Synchrony between daily rhythms of malaria parasites and hosts is driven by an essential amino acid. <i>Wellcome Open Research</i> , 0, 6, 186.	1.8	6
84	Evolutionary sex allocation theory explains sex ratios in natural <i>Plasmodium falciparum</i> infections. <i>International Journal for Parasitology</i> , 2019, 49, 601-604.	3.1	5
85	Synchrony between daily rhythms of malaria parasites and hosts is driven by an essential amino acid. <i>Wellcome Open Research</i> , 2021, 6, 186.	1.8	5
86	Sex allocation and interactions between relatives in the bean beetle, <i>Callosobruchus maculatus</i> . <i>Behavioural Processes</i> , 2005, 70, 282-288.	1.1	4
87	Malaria parasites prepare for flight. <i>Trends in Parasitology</i> , 2014, 30, 551-553.	3.3	4
88	Ecological influences on the behaviour and fertility of malaria parasites. <i>Malaria Journal</i> , 2016, 15, 220.	2.3	4
89	Premature Rejection of Plasticity in Conversion. <i>Trends in Parasitology</i> , 2018, 34, 633-634.	3.3	4
90	Early <i>Plasmodium</i> -induced inflammation does not accelerate aging in mice. <i>Evolutionary Applications</i> , 2019, 12, 314-323.	3.1	3

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91	Ecology of asynchronous asexual replication: the intraerythrocytic development cycle of <i>Plasmodium berghei</i> is resistant to host rhythms. <i>Malaria Journal</i> , 2021, 20, 105.	2.3	3
92	Adaptive phenotypic plasticity in malaria parasites is not constrained by previous responses to environmental change. <i>Evolution, Medicine and Public Health</i> , 2019, 2019, 190-198.	2.5	2
93	Antimalarial drugs: unexpected evolutionary consequences. <i>Malaria Journal</i> , 2010, 9, .	2.3	1