James Lb Mallet

List of Publications by Citations

133 papers	15,979 citations	60 h-index	126 g-index
161 ext. papers	18,820 ext. citations	7.9 avg, IF	7.24 L-index

#	Paper	IF	Citations
133	Hybridization as an invasion of the genome. *Trends in Ecology and Evolution*, **2005**, 20, 229-37	10.9	1396
132	Hybridization and speciation. *Journal of Evolutionary Biology*, **2013**, 26, 229-46	2.3	1195
131	Hybrid speciation. *Nature*, **2007**, 446, 279-83	50.4	1165
130	Butterfly genome reveals promiscuous exchange of mimicry adaptations among species. *Nature*, **2012**, 487, 94-8	50.4	859
129	Host races in plant-feeding insects and their importance in sympatric speciation. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2002**, 357, 471-92	5.8	665
128	A species definition for the modern synthesis. *Trends in Ecology and Evolution*, **1995**, 10, 294-9	10.9	604
127	Reproductive isolation caused by colour pattern mimicry. *Nature*, **2001**, 411, 302-5	50.4	517
126	Taxonomic inflation: its influence on macroecology and conservation. *Trends in Ecology and Evolution*, **2004**, 19, 464-9	10.9	496
125	Bimodal hybrid zones and speciation. *Trends in Ecology and Evolution*, **2000**, 15, 250-255	10.9	491
124	Genome-wide evidence for speciation with gene flow in Heliconius butterflies. *Genome Research*, **2013**, 23, 1817-28	9.7	420
123	Hybridization, ecological races and the nature of species: empirical evidence for the ease of speciation. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 2971-86	5.8	389
122	Evolution of Diversity in Warning Color and Mimicry: Polymorphisms, Shifting Balance, and Speciation. *Annual Review of Ecology, Evolution, and Systematics*, **1999**, 30, 201-233		389
121	How reticulated are species?. *BioEssays*, **2016**, 38, 140-9	4.1	281
120	Genomic islands of divergence in hybridizing Heliconius butterflies identified by large-scale targeted sequencing. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2012**, 367, 343-53	5.8	255
119	Limited performance of DNA barcoding in a diverse community of tropical butterflies. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 2881-9	4.4	208
118	A conserved supergene locus controls colour pattern diversity in Heliconius butterflies. *PLoS Biology*, **2006**, 4, e303	9.7	203
117	STRONG NATURAL SELECTION IN A WARNING-COLOR HYBRID ZONE. *Evolution; International Journal of Organic Evolution*, **1989**, 43, 421-431	3.8	200

116	Ecology. Biodiversity conservation and the Millennium Development Goals. *Science*, **2009**, 325, 1502-3	33.3	193
115	Natural hybridization in heliconiine butterflies: the species boundary as a continuum. *BMC Evolutionary Biology*, **2007**, 7, 28	3	190
114	Taxonomy: renaissance or Tower of Babel?. *Trends in Ecology and Evolution*, **2003**, 18, 57-59	10.9	170
113	Genomic evidence for divergence with gene flow in host races of the larch budmoth. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271, 97-105	4.4	167
112	Genomic architecture and introgression shape a butterfly radiation. *Science*, **2019**, 366, 594-599	33.3	161
111	Disruptive sexual selection against hybrids contributes to speciation between Heliconius cydno and Heliconius melpomene. *Proceedings of the Royal Society B: Biological Sciences*, **2001**, 268, 1849-54	4.4	154
110	Strong Natural Selection in a Warning-Color Hybrid Zone. *Evolution; International Journal of Organic Evolution*, **1989**, 43, 421	3.8	145
109	Phylogenetic discordance at the species boundary: comparative gene genealogies among rapidly radiating Heliconius butterflies. *Molecular Biology and Evolution*, **2002**, 19, 2176-90	8.3	140
108	Complex modular architecture around a simple toolkit of wing pattern genes. *Nature Ecology and Evolution*, **2017**, 1, 52	12.3	134
107	Multilocus species trees show the recent adaptive radiation of the mimetic heliconius butterflies. *Systematic Biology*, **2015**, 64, 505-24	8.4	132
106	Selective bird predation on the peppered moth: the last experiment of Michael Majerus. *Biology Letters*, **2012**, 8, 609-12	3.6	130
105	Inferences from a rapidly moving hybrid zone. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 741-53	3.8	129
104	Genome-wide patterns of divergence and gene flow across a butterfly radiation. *Molecular Ecology*, **2013**, 22, 814-26	5.7	128
103	Hybrid zones of Heliconius butterflies in Panama and the stability and movement of warning colour clines. *Heredity*, **1986**, 56, 191-202	3.6	128
102	Causes and Consequences of a Lack of Coevolution in M□llerian mimicry. *Evolutionary Ecology*, **1999**, 13, 777-806	1.8	126
101	The evolution of insecticide resistance: Have the insects won?. *Trends in Ecology and Evolution*, **1989**, 4, 336-40	10.9	126
100	Individual selection, kin selection, and the shifting balance in the evolution of warning colours: the evidence from butterflies. *Biological Journal of the Linnean Society*, **1987**, 32, 337-350	1.9	126
99	Estimation of the spontaneous mutation rate in Heliconius melpomene. *Molecular Biology and Evolution*, **2015**, 32, 239-43	8.3	123

98	Female behaviour drives expression and evolution of gustatory receptors in butterflies. *PLoS Genetics*, **2013**, 9, e1003620	6	108
97	Do pollen feeding, pupal-mating and larval gregariousness have a single origin in Heliconius butterflies? Inferences from multilocus DNA sequence data. *Biological Journal of the Linnean Society*, **2007**, 92, 221-239	1.9	106
96	Evolutionary Novelty in a Butterfly Wing Pattern through Enhancer Shuffling. *PLoS Biology*, **2016**, 14, e1002353	9.7	105
95	Are species real? The shape of the species boundary with exponential failure, reinforcement, and the "missing snowball". *Evolution; International Journal of Organic Evolution*, **2010**, 64, 1-24	3.8	103
94	Mimicry: developmental genes that contribute to speciation. *Evolution & Development*, **2003**, 5, 269-80	2.6	103
93	Mitochondrial DNA barcoding detects some species that are real, and some that are not. *Molecular Ecology Resources*, **2010**, 10, 264-73	8.4	100
92	Disruptive ecological selection on a mating cue. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 4907-13	4.4	100
91	Polyphyly and gene flow between non-sibling Heliconius species. *BMC Biology*, **2006**, 4, 11	7.3	97
90	Unraveling the thread of nature's tapestry: the genetics of diversity and convergence in animal pigmentation. *Pigment Cell and Melanoma Research*, **2012**, 25, 411-33	4.5	95
89	Variable Selection and the Coexistence of Multiple mimetic forms of the Butterfly Heliconius numata. *Evolutionary Ecology*, **1999**, 13, 721-754	1.8	95
88	Hybrid sterility, Haldane's rule and speciation in Heliconius cydno and H. melpomene. *Genetics*, **2002**, 161, 1517-26	4	94
87	Major Improvements to the Heliconius melpomene Genome Assembly Used to Confirm 10 Chromosome Fusion Events in 6 Million Years of Butterfly Evolution. *G3: Genes, Genomes, Genetics*, **2016**, 6, 695-708	3.2	93
86	Genomic hotspots for adaptation: the population genetics of Müllerian mimicry in the Heliconius melpomene clade. *PLoS Genetics*, **2010**, 6, e1000794	6	89
85	Sex-linked hybrid sterility in a butterfly. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 1631-8	3.8	89
84	Wing patterning gene redefines the mimetic history of Heliconius butterflies. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19666-71	11.5	86
83	Three ways of assessing metapopulation structure in the butterfly Plebejus argus. *Ecological Entomology*, **1997**, 22, 283-293	2.1	85
82	Genetic differentiation in Zeiraphera diniana (Lepidoptera: Tortricidae, the larch budmoth): polymorphism, host races or sibling species?. *Heredity*, **1995**, 75, 416-424	3.6	84
81	Ecology. Refuting refugia?. *Science*, **2003**, 300, 71-2	33.3	82

80	What does Drosophila genetics tell us about speciation?. *Trends in Ecology and Evolution*, **2006**, 21, 386-92	20.9	74
79	Genome-wide introgression among distantly related Heliconius butterfly species. *Genome Biology*, **2016**, 17, 25	18.3	73
78	What Is Speciation?. *PLoS Genetics*, **2016**, 12, e1005860	6	72
77	Supergene Evolution Triggered by the Introgression of a Chromosomal Inversion. *Current Biology*, **2018**, 28, 1839-1845.e3	6.3	72
76	Host-induced assortative mating in host races of the larch budmoth. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 2002-10	3.8	71
75	Shift happens! Shifting balance and the evolution of diversity in warning colour and mimicry. *Ecological Entomology*, **2010**, 35, 90-104	2.1	60
74	Testing historical explanations for gradients in species richness in heliconiine butterflies of tropical America. *Biological Journal of the Linnean Society*, **2012**, 105, 479-497	1.9	59
73	Biochemical Genetics of Heliothis and Helicoverpa (Lepidoptera: Noctuidae) and Evidence for a Founder Event in Helicoverpa zea. *Annals of the Entomological Society of America*, **1993**, 86, 189-197	2	59
72	Strikingly variable divergence times inferred across an Amazonian butterfly 'suture zone'. *Proceedings of the Royal Society B: Biological Sciences*, **2005**, 272, 2525-33	4.4	57
71	What can hybrid zones tell us about speciation? The case of Heliconius erato and H. himera (Lepidoptera: Nymphalidae). *Biological Journal of the Linnean Society*, **1996**, 59, 221-242	1.9	57
70	Dispersal and gene flow in a butterfly with home range behavior: Heliconius erato (Lepidoptera: Nymphalidae). *Oecologia*, **1986**, 68, 210-217	2.9	53
69	Mayr's view of Darwin: was Darwin wrong about speciation?. *Biological Journal of the Linnean Society*, **2008**, 95, 3-16	1.9	51
68	Comparing Adaptive Radiations Across Space, Time, and Taxa. *Journal of Heredity*, **2020**, 111, 1-20	2.4	49
67	The anatomy of a 'suture zone' in Amazonian butterflies: a coalescent-based test for vicariant geographic divergence and speciation. *Molecular Ecology*, **2010**, 19, 4283-301	5.7	46
66	Population Structure in Heliothis virescens (Lepidoptera: Noctuidae): an Estimate of Gene Flow. *Annals of the Entomological Society of America*, **1993**, 86, 182-188	2	46
65	Speciation in two neotropical butterflies: extending Haldane's rule. *Proceedings of the Royal Society B: Biological Sciences*, **1997**, 264, 845-851	4.4	44
64	Correlations between adult mimicry and larval host plants in ithomiine butterflies. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271 Suppl 5, S266-9	4.4	43
63	Diversification of clearwing butterflies with the rise of the Andes. *Journal of Biogeography*, **2016**, 43, 44-58	4.1	39

62	Perspectives Poulton, Wallace and Jordan: How discoveries in Papilio butterflies led to a new species concept 100 years ago. *Systematics and Biodiversity*, **2004**, 1, 441-452	1.7	38
61	Ecological and genetic factors influencing the transition between host-use strategies in sympatric Heliconius butterflies. *Journal of Evolutionary Biology*, **2013**, 26, 1959-67	2.3	35
60	Into the Andes: multiple independent colonizations drive montane diversity in the Neotropical clearwing butterflies Godyridina. *Molecular Ecology*, **2016**, 25, 5765-5784	5.7	35
59	North Andean origin and diversification of the largest ithomiine butterfly genus. *Scientific Reports*, **2017**, 7, 45966	4.9	33
58	Genetic differentiation without mimicry shift in a pair of hybridizingHeliconiusspecies (Lepidoptera: Nymphalidae). *Biological Journal of the Linnean Society*, **2013**, 109, 830-847	1.9	31
57	Sex roles in the ghost moth Hepialus humuli (L.) and a review of mating in the Hepialidae (Lepidoptera). *Zoological Journal of the Linnean Society*, **1984**, 80, 67-82	2.4	30
56	Stable Heliconius butterfly hybrid zones are correlated with a local rainfall peak at the edge of the Amazon basin. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 3470-84	3.8	29
55	Why was Darwin's view of species rejected by twentieth century biologists?. *Biology and Philosophy*, **2010**, 25, 497-527	1.7	29
54	Hybridisation and climate change: brown argus butterflies in Britain (Polyommatus subgenus Aricia). *Insect Conservation and Diversity*, **2011**, 4, 192-199	3.8	28
53	Genetic analysis of a wild-caught hybrid between non-sister Heliconius butterfly species. *Biology Letters*, **2007**, 3, 660-3	3.6	26
52	ESTIMATING THE MATING BEHAVIOR OF A PAIR OF HYBRIDIZING HELICONIUS SPECIES IN THE WILD. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 503-510	3.8	26
51	Rapid speciation, hybridization and adaptive radiation in the Heliconius melpomene group **2001**, 177-194		22
50	The genetic architecture of adaptation: convergence and pleiotropy in Heliconius wing pattern evolution. *Heredity*, **2019**, 123, 138-152	3.6	21
49	Molecular phylogenetics of the neotropical butterfly subtribe Oleriina (Nymphalidae: Danainae: Ithomiini). *Molecular Phylogenetics and Evolution*, **2010**, 55, 1032-41	4.1	21
48	Host plant adaptation has not played a role in the recent speciation of Heliconius himera and Heliconius erato. *Ecological Entomology*, **1997**, 22, 361-365	2.1	20
47	Extensive range overlap between heliconiine sister species: evidence for sympatric speciation in butterflies?. *BMC Evolutionary Biology*, **2015**, 15, 125	3	17
46	Phylogenetic Utility of Tektin, a Novel Region for Inferring Systematic Relationships Among Lepidoptera. *Annals of the Entomological Society of America*, **2005**, 98, 873-886	2	17
45	Estimating the Mating Behavior of a Pair of Hybridizing Heliconius Species in the Wild. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 503	3.8	17

44	Renewed diversification following Miocene landscape turnover in a Neotropical butterfly radiation. *Global Ecology and Biogeography*, **2019**, 28, 1118-1132	6.1	16
43	Mimicry meets the mitochondrion. Evolution. *Current Biology*, **1996**, 6, 937-40	6.3	16
42	Contrasting patterns of Andean diversification among three diverse clades of Neotropical clearwing butterflies. *Ecology and Evolution*, **2018**, 8, 3965-3982	2.8	15
41	Ecologically relevant cryptic species in the highly polymorphic Amazonian butterfly Mechanitis mazaeus s.l. (Lepidoptera: Nymphalidae; Ithomiini). *Biological Journal of the Linnean Society*, **2012**, 106, 540-560	1.9	15
40	Selection for enemy-free space: eggs placed away from the host plant increase survival of a neotropical ithomiine butterfly. *Ecological Entomology*, **2011**, 36, 667-672	2.1	15
39	Species, Concepts of **2013**, 679-691		14
38	Simultaneous TE Analysis of 19 Heliconiine Butterflies Yields Novel Insights into Rapid TE-Based Genome Diversification and Multiple SINE Births and Deaths. *Genome Biology and Evolution*, **2019**, 11, 2162-2177	3.9	13
37	Group selection and the development of the biological species concept. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 1853-63	5.8	13
36	Species, Concepts of **2007**, 1-15		13
35	SEX-LINKED HYBRID STERILITY IN A BUTTERFLY. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 1631	3.8	11
34	Subspecies, Semispecies, Superspecies **2007**, 1-5		10
33	New genomes clarify mimicry evolution. *Nature Genetics*, **2015**, 47, 306-7	36.3	8
32	Cryptic speciation associated with geographic and ecological divergence in two Amazonian Heliconius butterflies. *Zoological Journal of the Linnean Society*, **2019**, 186, 233-249	2.4	8
31	Is Mimicry theory unpalatable?. *Trends in Ecology and Evolution*, **1990**, 5, 344-5	10.9	8
30	Invasive insect hybridizes with local pests. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4819-4821	11.5	7
29	Hybrid zones and the speciation continuum in Heliconius butterflies. *Molecular Ecology*, **2012**, 21, 5643-55	5.7	7
28	Reply from j. Mallet. *Trends in Ecology and Evolution*, **1995**, 10, 490-1	10.9	7
27	Genomic architecture and introgression shape a butterfly radiation		7

26	Prevalence and Adaptive Impact of Introgression. *Annual Review of Genetics*, **2021**, 55, 265-283	14.5	7
25	Mitochondrial DNA provides an insight into the mechanisms driving diversification in the ithomiine butterfly Hyposcada anchiala (Lepidoptera: Nymphalidae: Ithomiinae). *European Journal of Entomology*, **2005**, 102, 633-639		6
24	Alternative views of biological species: reproductively isolated units or genotypic clusters?. *National Science Review*, **2020**, 7, 1401-1407	10.8	6
23	Species problem solved 100 years ago. *Nature*, **2004**, 430, 503	50.4	5
22	Subspecies, Semispecies, Superspecies **2013**, 45-48		4
21	Reply from j. Mallet. *Trends in Ecology and Evolution*, **1996**, 11, 174-5	10.9	4
20	Ecological and Evolutionary Aspects of Insecticide Resistance. By John A. McKenzie. R. G. Landes Co. (Academic Press). 1996. 885 pages. Hard cover. ISBN 0 12 484825 7.. *Genetical Research*, **1996**, 68, 183-184	1.1	4
19	Multilocus Species Trees Show the Recent Adaptive Radiation of the Mimetic Heliconius Butterflies		4
18	The Amazon river is a suture zone for a polyphyletic group of co-mimetic heliconiine butterflies. *Ecography*, **2021**, 44, 177-187	6.5	4
17	Contrasting genomic and phenotypic outcomes of hybridization between pairs of mimetic butterfly taxa across a suture zone. *Molecular Ecology*, **2020**, 29, 1328-1343	5.7	3
16	Darwin and Species109-115		3
15	Ecological Genetics: A Key Gene for Mimicry and Melanism. *Current Biology*, **2016**, 26, R802-4	6.3	2
14	Alfred Russel Wallace and the Darwinian Species Concept: His Paper on the Swallowtail Butterflies (Papilionidae) of 1865. *Gayana*, **2009**, 73,	1.7	2
13	Synteny-Based Genome Assembly for 16 Species of Heliconius Butterflies, and an Assessment of Structural Variation across the Genus. *Genome Biology and Evolution*, **2021**, 13,	3.9	2
12	Excess melanin precursors rescue defective cuticular traits in stony mutant silkworms probably by upregulating four genes encoding RR1-type larval cuticular proteins. *Insect Biochemistry and Molecular Biology*, **2020**, 119, 103315	4.5	1
11	Reply from M. Joron and J.L.B. Mallet. *Trends in Ecology and Evolution*, **1999**, 14, 151	10.9	1
10	Reply from j.L.B. Mallet. *Trends in Ecology and Evolution*, **1990**, 5, 164-5	10.9	1
9	Molecular Genetic Analysis of Populations. Second Edition. Practical Approach Series. Edited by A. R. Hoelzel. Oxford, New York, Tokyo: IRL Press at Oxford University Press. 1998. Pp. xxii+445. £29.95 (paperback).. *Annals of Human Genetics*, **1999**, 63, 273-275	2.2	0

8	Reply to Andrew Brower's critique of the evidence for hybridization among Heliconius butterfly species in the wild. *Zootaxa*, **2019**, 4679, zootaxa.4679.3.11	0.5
7	Speciation: frog mimics prefer their own. *Current Biology*, **2014**, 24, R1094-6	6.3
6	Tropical ecology in miniature. *Trends in Ecology and Evolution*, **1998**, 13, 377	10.9
5	From a feel for the organism to a model system. *Trends in Ecology and Evolution*, **2004**, 19, 625-626	10.9
4	Reply from C.D. Jiggins and J. Mallet. *Trends in Ecology and Evolution*, **2000**, 15, 469	10.9
3	Alfred Russel Wallace: An anthology of his shorter writings. *Trends in Ecology and Evolution*, **1992**, 7, 32-33	10.9
2	The butterflies of north america: A natural history and field guide. *Trends in Ecology and Evolution*, **1987**, 2, 256-257	10.9
1	Species, Concepts of **2022**,	