Anna Orteu

List of Publications by Year
in descending order

83 papers	8,113 citations	37 h-index	78 g-index
101 all docs	101 docs citations	101 times ranked	7964 citing authors

94433

66911

#	Article	IF	Citations
1	Genomics and the origin of species. Nature Reviews Genetics, 2014, 15, 176-192.	16.3	850
2	Evaluating the Use of ABBAâ€“BABA Statistics to Locate Introgressed Loci. Molecular Biology and Evolution, 2015, 32, 244-257.	8.9	532
3	Chromosomal rearrangements maintain a polymorphic supergene controlling butterfly mimicry. Nature, 2011, 477, 203-206.	27.8	509
4	The biology of color. Science, 2017, 357, .	12.6	509
5	<i>optix</i> Drives the Repeated Convergent Evolution of Butterfly Wing Pattern Mimicry. Science, 2011, 333, 1137-1141.	12.6	431
6	Genomic architecture and introgression shape a butterfly radiation. Science, 2019, 366, 594-599.	12.6	365
7	Recombination rate variation shapes barriers to introgression across butterfly genomes. PLoS Biology, 2019, 17, e2006288.	5.6	253
8	Diversification of complex butterfly wing patterns by repeated regulatory evolution of a <i>Wnt</i> ligand. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12632-12637.	7.1	244
9	Estimation of the Spontaneous Mutation Rate in Heliconius melpomene. Molecular Biology and Evolution, 2015, 32, 239-243.	8.9	220
10	The gene cortex controls mimicry and crypsis in butterflies and moths. Nature, 2016, 534, 106-110.	27.8	212
11	Multilocus Species Trees Show the Recent Adaptive Radiation of the Mimetic Heliconius Butterflies. Systematic Biology, 2015, 64, 505-524.	5.6	204
12	Interpreting the genomic landscape of introgression. Current Opinion in Genetics and Development, 2017, 47, 69-74.	3.3	186
13	Complex modular architecture around a simple toolkit of wing pattern genes. Nature Ecology and Evolution, 2017, 1, 52.	7.8	179
14	Phylogenetic Discordance at the Species Boundary: Comparative Gene Genealogies Among Rapidly Radiating Heliconius Butterflies. Molecular Biology and Evolution, 2002, 19, 2176-2190.	8.9	156
15	Major Improvements to the <i>Heliconius melpomene</i> Genome Assembly Used to Confirm 10 Chromosome Fusion Events in 6ÂMillion Years of Butterfly Evolution. G3: Genes, Genomes, Genetics, 2016, 6, 695-708.	1.8	149
16	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.	1.6	138
17	Macroevolutionary shifts of <i>WntA</i> function potentiate butterfly wing-pattern diversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10701-10706.	7.1	137
18	Evolutionary Novelty in a Butterfly Wing Pattern through Enhancer Shuffling. PLoS Biology, 2016, 14, e1002353.	5.6	136

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19	Towards the identification of the loci of adaptive evolution. Methods in Ecology and Evolution, 2015, 6, 445-464.	5.2	115
20	Population genomics of parallel hybrid zones in the mimetic butterflies, <i>H. melpomene</i> and <i>H. erato</i>. Genome Research, 2014, 24, 1316-1333.	5.5	114
21	Hybrid trait speciation and<i>Heliconius</i>butterflies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 3047-3054.	4.0	108
22	patternize: An R package for quantifying colour pattern variation. Methods in Ecology and Evolution, 2018, 9, 390-398.	5.2	96
23	Natural Selection and Genetic Diversity in the Butterfly <i>Heliconius melpomene</i>. Genetics, 2016, 203, 525-541.	2.9	94
24	No evidence for maintenance of a sympatric<i>Heliconius</i>species barrier by chromosomal inversions. Evolution Letters, 2017, 1, 138-154.	3.3	90
25	The genomics of coloration provides insights into adaptive evolution. Nature Reviews Genetics, 2020, 21, 461-475.	16.3	88
26	Genetic dissection of assortative mating behavior. PLoS Biology, 2019, 17, e2005902.	5.6	79
27	Male sex pheromone components in <i> Heliconius</i> butterflies released by the androconia affect female choice. PeerJ, 2017, 5, e3953.	2.0	79
28	Evolution of novel mimicry rings facilitated by adaptive introgression in tropical butterflies. Molecular Ecology, 2017, 26, 5160-5172.	3.9	70
29	Patterns of Z chromosome divergence among <i>Heliconius</i> species highlight the importance of historical demography. Molecular Ecology, 2018, 27, 3852-3872.	3.9	69
30	Waiting in the wings: what can we learn about gene co-option from the diversification of butterfly wing patterns?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20150485.	4.0	67
31	Adaptive Introgression across Semipermeable Species Boundaries between Local Helicoverpa zea and Invasive Helicoverpa armigera Moths. Molecular Biology and Evolution, 2020, 37, 2568-2583.	8.9	64
32	Maintaining mimicry diversity: optimal warning colour patterns differ among microhabitats in Amazonian clearwing butterflies. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170744.	2.6	60
33	Selective sweeps on novel and introgressed variation shape mimicry loci in a butterfly adaptive radiation. PLoS Biology, 2020, 18, e3000597.	5.6	60
34	Insights into invasive species from wholeâ€genome resequencing. Molecular Ecology, 2021, 30, 6289-6308.	3.9	56
35	Interplay between Developmental Flexibility and Determinism in the Evolution of Mimetic Heliconius Wing Patterns. Current Biology, 2019, 29, 3996-4009.e4.	3.9	55
36	Sex Chromosome Dosage Compensation in<i>Heliconius</i>Butterflies: Global yet Still Incomplete?. Genome Biology and Evolution, 2015, 7, 2545-2559.	2.5	54

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37	Into the Andes: multiple independent colonizations drive montane diversity in the Neotropical clearwing butterflies Godyridina. Molecular Ecology, 2016, 25, 5765-5784.	3.9	52
38	North Andean origin and diversification of the largest ithomiine butterfly genus. Scientific Reports, 2017, 7, 45966.	3.3	48
39	Peace in Colombia is a critical moment for Neotropical connectivity and conservation: Save the northern Andesâ€“Amazon biodiversity bridge. Conservation Letters, 2019, 12, e12594.	5.7	46
40	Haplotype tagging reveals parallel formation of hybrid races in two butterfly species. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	46
41	Whole-chromosome hitchhiking driven by a male-killing endosymbiont. PLoS Biology, 2020, 18, e3000610.	5.6	44
42	Microclimate buffering and thermal tolerance across elevations in a tropical butterfly. Journal of Experimental Biology, 2020, 223, .	1.7	41
43	Global population genetic structure and demographic trajectories of the black soldier fly, Hermetia illucens. BMC Biology, 2021, 19, 94.	3.8	41
44	Comparative genomics of the mimicry switch in<i>Papilio dardanus</i>. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140465.	2.6	40
45	Cortex cis-regulatory switches establish scale colour identity and pattern diversity in Heliconius. ELife, 2021, 10, .	6.0	40
46	The transcriptome response of <i>Heliconius melpomene</i> larvae to a novel host plant. Molecular Ecology, 2016, 25, 4850-4865.	3.9	39
47	Genome-wide analysis of ionotropic receptors provides insight into their evolution in Heliconius butterflies. BMC Genomics, 2016, 17, 254.	2.8	38
48	Evaluating female remating rates in light of spermatophore degradation in <i>Heliconius</i> butterflies: pupalâ€mating monandry versus adultâ€mating polyandry. Ecological Entomology, 2012, 37, 257-268.	2.2	37
49	A high-quality, chromosome-level genome assembly of the Black Soldier Fly (<i>Hermetia illucens</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	37
50	Male pheromone composition depends on larval but not adult diet in <i>Heliconius melpomene</i>. Ecological Entomology, 2019, 44, 397-405.	2.2	35
51	Avoidance of an aposematically coloured butterfly by wild birds in a tropical forest. Ecological Entomology, 2016, 41, 627-632.	2.2	34
52	The appearance of mimetic <i>Heliconius</i> butterflies to predators and conspecifics. Evolution; International Journal of Organic Evolution, 2018, 72, 2156-2166.	2.3	33
53	Conserved ancestral tropical niche but different continental histories explain the latitudinal diversity gradient in brush-footed butterflies. Nature Communications, 2021, 12, 5717.	12.8	33
54	Sexually dimorphic gene expression and transcriptome evolution provide mixed evidence for a fastâ€Z effect in <i>Heliconius</i>. Journal of Evolutionary Biology, 2019, 32, 194-204.	1.7	31

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55	Species specificity and intraspecific variation in the chemical profiles of <i>Heliconius</i> butterflies across a large geographic range. Ecology and Evolution, 2020, 10, 3895-3918.		1.9	31
56	A novel terpene synthase controls differences in anti-aphrodisiac pheromone production between closely related Heliconius butterflies. PLoS Biology, 2021, 19, e3001022.		5.6	29
57	The Evolution of Sex Ratio Distorter Suppression Affects a 25 cM Genomic Region in the Butterfly Hypolimnas bolina. PLoS Genetics, 2014, 10, e1004822.		3.5	27
58	Altitude and lifeâ€history shape the evolution of<i>Heliconius</i>wings. Evolution; International Journal of Organic Evolution, 2019, 73, 2436-2450.		2.3	27
59	An introgressed wing pattern acts as a mating cue. Evolution; International Journal of Organic Evolution, 2015, 69, 1619-1629.		2.3	25
60	Divergence of chemosensing during the early stages of speciation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16438-16447.		7.1	25
61	Pollen feeding proteomics: Salivary proteins of the passion flower butterfly, Heliconius melpomene. Insect Biochemistry and Molecular Biology, 2015, 63, 7-13.		2.7	24
62	Visual mate preference evolution during butterfly speciation is linked to neural processing genes. Nature Communications, 2020, 11, 4763.		12.8	24
63	Conservation and flexibility in the gene regulatory landscape of heliconiine butterfly wings. EvoDevo, 2019, 10, 15.		3.2	22
64	A haplotype-resolved,<i>de novo</i>genome assembly for the wood tiger moth (<i>Arctia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td		6.4	20
65	A major locus controls a biologically active pheromone component in <i>Heliconius melpomene</i>. Evolution; International Journal of Organic Evolution, 2020, 74, 349-364.		2.3	19
66	The dynamics of cyanide defences in the life cycle of an aposematic butterfly: Biosynthesis versus sequestration. Insect Biochemistry and Molecular Biology, 2020, 116, 103259.		2.7	17
67	Assessing genotype-phenotype associations in three dorsal colour morphs in the meadow spittlebug Philaenus spumarius (L.) (Hemiptera: Aphrophoridae) using genomic and transcriptomic resources. BMC Genetics, 2016, 17, 144.		2.7	14
68	Deep Convergence, Shared Ancestry, and Evolutionary Novelty in the Genetic Architecture of <i>Heliconius</i> Mimicry. Genetics, 2020, 216, 765-780.		2.9	13
69	Suppression of<i>Wolbachia</i>-mediated male-killing in the butterfly<i>Hypolimnas bolina</i>involves a single genomic region. PeerJ, 2019, 7, e7677.		2.0	13
70	Hybridization and transgressive exploration of colour pattern and wing morphology in <i>Heliconius</i> butterflies. Journal of Evolutionary Biology, 2020, 33, 942-956.		1.7	12
71	Phenotypic plasticity in chemical defence of butterflies allows usage of diverse host plants. Biology Letters, 2021, 17, 20200863.		2.3	12
72	Identification and Composition of Clasper Scent Gland Components of the Butterfly <i>Heliconius erato</i> and Its Relation to Mimicry. ChemBioChem, 2021, 22, 3300-3313.		2.6	10

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73	Can genomics shed light on the origin of species?. PLoS Biology, 2019, 17, e3000394.	5.6	9
74	Population structure, adaptation and divergence of the meadow spittlebug, <i>Philaenus spumarius</i> (Hemiptera, Aphrophoridae), revealed by genomic and morphological data. PeerJ, 2021, 9, e11425.	2.0	9
75	Clustering of loci controlling species differences in male chemical bouquets of sympatric <i>Heliconius</i> butterflies. Ecology and Evolution, 2021, 11, 89-107.	1.9	9
76	Genomics of altitudeâ€associated wing shape in two tropical butterflies. Molecular Ecology, 2021, 30, 6387-6402.	3.9	8
77	Evolutionary and ecological processes influencing chemical defense variation in an aposematic and mimetic <i>Heliconius</i> butterfly. PeerJ, 2021, 9, e11523.	2.0	7
78	A large deletion at the cortex locus eliminates butterfly wing patterning. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	6
79	A flamboyant behavioral polymorphism is controlled by a lethal supergene. Nature Genetics, 2016, 48, 7-8.	21.4	4
80	Estimating the age of<i>Heliconius</i>butterflies from calibrated photographs. PeerJ, 2017, 5, e3821.	2.0	4
81	Radiating genomes. Nature, 2014, 513, 318-319.	27.8	3
82	Plasticity in flower size as an adaptation to variation in pollinator specificity. Ecological Entomology, 2020, 45, 1367-1372.	2.2	2
83	Condition dependence in biosynthesized chemical defenses of an aposematic and mimetic <i>Heliconius</i> butterfly. Ecology and Evolution, 2022, 12, .	1.9	1