

Christopher W Wheat

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

4,235
citations

185998

28
h-index

133063

59
g-index

77
all docs

77
docs citations

77
times ranked

6411
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomics and the challenging translation into conservation practice. <i>Trends in Ecology and Evolution</i> , 2015, 30, 78-87.	4.2	469
2	The butterfly plant arms-race escalated by gene and genome duplications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8362-8366.	3.3	458
3	The genetic basis of a plant-insect coevolutionary key innovation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20427-20431.	3.3	325
4	Bioinformatic processing of RAD-seq data dramatically impacts downstream population genetic inference. <i>Methods in Ecology and Evolution</i> , 2017, 8, 907-917.	2.2	253
5	Timing and Patterns in the Taxonomic Diversification of Lepidoptera (Butterflies and Moths). <i>PLoS ONE</i> , 2013, 8, e80875.	1.1	197
6	The Glanville fritillary genome retains an ancient karyotype and reveals selective chromosomal fusions in Lepidoptera. <i>Nature Communications</i> , 2014, 5, 4737.	5.8	196
7	Genetics of dispersal. <i>Biological Reviews</i> , 2018, 93, 574-599.	4.7	182
8	Strong phenotypic plasticity limits potential for evolutionary responses to climate change. <i>Nature Communications</i> , 2018, 9, 1005.	5.8	137
9	Population genomics of the critically endangered <i>krÅpÅ</i> . <i>Cell Genomics</i> , 2021, 1, 100002.	3.0	106
10	INTEGRATING EVOLUTIONARY AND FUNCTIONAL APPROACHES TO INFER ADAPTATION AT SPECIFIC LOCI. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2489-2509.	1.1	103
11	Mechanisms of macroevolution: polyphagous plasticity in butterfly larvae revealed by <i>RNA-seq</i> . <i>Molecular Ecology</i> , 2013, 22, 4884-4895.	2.0	101
12	Embracing Colonizations: A New Paradigm for Species Association Dynamics. <i>Trends in Ecology and Evolution</i> , 2018, 33, 4-14.	4.2	94
13	Climate-induced phenology shifts linked to range expansions in species with multiple reproductive cycles per year. <i>Nature Communications</i> , 2019, 10, 4455.	5.8	82
14	Quantitative RNA-Seq analysis in non-model species: assessing transcriptome assemblies as a scaffold and the utility of evolutionary divergent genomic reference species. <i>BMC Genomics</i> , 2012, 13, 361.	1.2	79
15	Phylogenomic Insights into the Cambrian Explosion, the Colonization of Land and the Evolution of Flight in Arthropoda. <i>Systematic Biology</i> , 2013, 62, 93-109.	2.7	75
16	Genetic variation underlying local adaptation of diapause induction along a cline in a butterfly. <i>Molecular Ecology</i> , 2018, 27, 3613-3626.	2.0	67
17	Unprecedented reorganization of holocentric chromosomes provides insights into the enigma of lepidopteran chromosome evolution. <i>Science Advances</i> , 2019, 5, eaau3648.	4.7	66
18	Energy and lipid metabolism during direct and diapause development in a pierid butterfly. <i>Journal of Experimental Biology</i> , 2016, 219, 3049-3060.	0.8	64

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19	Revised systematics and higher classification of pierid butterflies (Lepidoptera: Pieridae) based on molecular data. <i>Zoologica Scripta</i> , 2014, 43, 641-650.	0.7	61
20	A complete time-calibrated multi-gene phylogeny of the European butterflies. <i>ZooKeys</i> , 2020, 938, 97-124.	0.5	61
21	The molecular genetic basis of herbivory between butterflies and their host plants. <i>Nature Ecology and Evolution</i> , 2018, 2, 1418-1427.	3.4	56
22	A high-coverage draft genome of the mycalesine butterfly <i>Bicyclus anynana</i> . <i>GigaScience</i> , 2017, 6, 1-7.	3.3	55
23	Timing of diapause termination in relation to variation in winter climate. <i>Physiological Entomology</i> , 2017, 42, 232-238.	0.6	53
24	Local adaptation of photoperiodic plasticity maintains life cycle variation within latitudes in a butterfly. <i>Ecology</i> , 2019, 100, e02550.	1.5	46
25	A transposable element insertion is associated with an alternative life history strategy. <i>Nature Communications</i> , 2019, 10, 5757.	5.8	41
26	Genomic insights into the conservation status of the world's last remaining Sumatran rhinoceros populations. <i>Nature Communications</i> , 2021, 12, 2393.	5.8	39
27	A mitochondrial-DNA-based phylogeny for some evolutionary-genetic model species of <i>Colias</i> butterflies (Lepidoptera, Pieridae). <i>Molecular Phylogenetics and Evolution</i> , 2008, 47, 893-902.	1.2	37
28	Structural complexity and molecular heterogeneity of a butterfly ejaculate reflect a complex history of selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5406-E5413.	3.3	37
29	<i>Drosophila</i> Evolution over Space and Time (DEST): A New Population Genomics Resource. <i>Molecular Biology and Evolution</i> , 2021, 38, 5782-5805.	3.5	37
30	Evolutionary history of host use, rather than plant phylogeny, determines gene expression in a generalist butterfly. <i>BMC Evolutionary Biology</i> , 2016, 16, 59.	3.2	36
31	Unifying host-associated diversification processes using butterfly-plant networks. <i>Nature Communications</i> , 2018, 9, 5155.	5.8	35
32	Sex-linked inheritance of diapause induction in the butterfly <i>Pieris napi</i> . <i>Physiological Entomology</i> , 2017, 42, 257-265.	0.6	33
33	Conserved ancestral tropical niche but different continental histories explain the latitudinal diversity gradient in brush-footed butterflies. <i>Nature Communications</i> , 2021, 12, 5717.	5.8	33
34	Colour lightness of butterfly assemblages across North America and Europe. <i>Scientific Reports</i> , 2019, 9, 1760.	1.6	32
35	Phosphoglucose isomerase (Pgi) performance and fitness effects among Arthropods and its potential role as an adaptive marker in conservation genetics. <i>Conservation Genetics</i> , 2010, 11, 387-397.	0.8	30
36	Investigating the genomic basis of discrete phenotypes using a PoolSeq only approach: New insights into the genetics underlying colour variation in diverse taxa. <i>Molecular Ecology</i> , 2017, 26, 4990-5002.	2.0	27

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37	Metabolome dynamics of diapause in the butterfly <i>Pieris napi</i> : distinguishing maintenance, termination and post-diapause phases. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	25
38	X-tox: An atypical defensin derived family of immune-related proteins specific to Lepidoptera. <i>Developmental and Comparative Immunology</i> , 2008, 32, 575-584.	1.0	24
39	Critiquing blind dating: the dangers of over-confident date estimates in comparative genomics. <i>Trends in Ecology and Evolution</i> , 2013, 28, 636-642.	4.2	24
40	PCR primers for 30 novel gene regions in the nuclear genomes of Lepidoptera. <i>ZooKeys</i> , 2016, 596, 129-141.	0.5	24
41	Exploring a Pool-seq only approach for gaining population genomic insights in nonmodel species. <i>Ecology and Evolution</i> , 2019, 9, 11448-11463.	0.8	23
42	A genetic switch for male UV iridescence in an incipient species pair of sulphur butterflies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	22
43	Diapause: Circadian Clock Genes Are at It Again. <i>Current Biology</i> , 2019, 29, R1245-R1246.	1.8	20
44	The Genome Assembly and Annotation of the Apollo Butterfly <i>Parnassius apollo</i> , a Flagship Species for Conservation Biology. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	19
45	Alternative splicing in seasonal plasticity and the potential for adaptation to environmental change. <i>Nature Communications</i> , 2022, 13, 755.	5.8	18
46	Microevolutionary dynamics of a macroevolutionary key innovation in a Lepidopteran herbivore. <i>BMC Evolutionary Biology</i> , 2010, 10, 60.	3.2	17
47	Museomics of a rare taxon: placing Whalleyanidae in the Lepidoptera Tree of Life. <i>Systematic Entomology</i> , 2021, 46, 926-937.	1.7	17
48	Butterfly dichromatism primarily evolved via Darwin's, not Wallace's, model. <i>Evolution Letters</i> , 2020, 4, 545-555.	1.6	16
49	The unresolved phylogenomic tree of butterflies and moths (Lepidoptera): Assessing the potential causes and consequences. <i>Systematic Entomology</i> , 2022, 47, 531-550.	1.7	14
50	Changes in gene expression during female reproductive development in a color polymorphic insect. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 1063-1081.	1.1	13
51	Morphology does not covary with predicted behavioral correlations of the domestication syndrome in dogs. <i>Evolution Letters</i> , 2020, 4, 189-199.	1.6	13
52	Pgi: the ongoing saga of a candidate gene. <i>Current Opinion in Insect Science</i> , 2014, 4, 42-47.	2.2	12
53	High-Quality Genome Assembly and Comprehensive Transcriptome of the Painted Lady Butterfly <i>Vanessa cardui</i> . <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	10
54	Female fecundity variation affects reproducibility of experiments on host plant preference and acceptance in a phytophagous insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162643.	1.2	9

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55	Microevolutionary selection dynamics acting on immune genes of the green-veined white butterfly, <i>Pieris napi</i> . <i>Molecular Ecology</i> , 2018, 27, 2807-2822.	2.0	9
56	From Inquilines to Gall Inducers: Genomic Signature of a Life-Style Transition in <i>Synergus</i> Gall Wasps. <i>Genome Biology and Evolution</i> , 2020, 12, 2060-2073.	1.1	9
57	Chromosome Level Assembly of the Comma Butterfly (<i>Polygonia c-album</i>). <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	8
58	Local adaptation of life cycles in a butterfly is associated with variation in several circadian clock genes. <i>Molecular Ecology</i> , 2022, 31, 1461-1475.	2.0	8
59	The Genome of the Margined White Butterfly (<i>Pieris macdunnoughii</i>): Sex Chromosome Insights and the Power of Polishing with PoolSeq Data. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	7
60	Transcriptome sequencing reveals high isoform diversity in the ant <i>Formica exsecta</i> . <i>PeerJ</i> , 2017, 5, e3998.	0.9	7
61	Extensive transcriptomic profiling of pupal diapause in a butterfly reveals a dynamic phenotype. <i>Molecular Ecology</i> , 2022, 31, 1269-1280.	2.0	7
62	Physiological differences between female limited, alternative life history strategies: The Alba phenotype in the butterfly <i>Colias croceus</i> . <i>Journal of Insect Physiology</i> , 2018, 107, 257-264.	0.9	6
63	Differential Expression of Immune Genes between Two Closely Related Beetle Species with Different Immunocompetence following Attack by <i>Asecodes parviclava</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 522-534.	1.1	6
64	A Population Genomic Investigation of Immune Cell Diversity and Phagocytic Capacity in a Butterfly. <i>Genes</i> , 2021, 12, 279.	1.0	5
65	Planned cull endangers Swedish wolf population. <i>Science</i> , 2022, 377, 162-162.	6.0	5
66	Physiological Tradeoffs of Immune Response Differs by Infection Type in <i>Pieris napi</i> . <i>Frontiers in Physiology</i> , 2020, 11, 576797.	1.3	4
67	A large and diverse autosomal haplotype is associated with sex-linked colour polymorphism in the guppy. <i>Nature Communications</i> , 2022, 13, 1233.	5.8	3