

Akito Kawahara

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107
papers

4,330
citations

27
h-index

64
g-index

131
ext. papers

5,719
ext. citations

4.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
107	Phylogenomics resolves the timing and pattern of insect evolution. <i>Science</i> , 2014 , 346, 763-7	33.3	1489
106	Order Lepidoptera Linnaeus, 1758. In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. <i>Zootaxa</i> , 2011 , 3148, 212	0.5	286
105	A large-scale, higher-level, molecular phylogenetic study of the insect order Lepidoptera (moths and butterflies). <i>PLoS ONE</i> , 2013 , 8, e58568	3.7	201
104	A framework to assess evolutionary responses to anthropogenic light and sound. <i>Trends in Ecology and Evolution</i> , 2015 , 30, 550-60	10.9	177
103	Toward reconstructing the evolution of advanced moths and butterflies (Lepidoptera: Ditrysia): an initial molecular study. <i>BMC Evolutionary Biology</i> , 2009 , 9, 280	3	163
102	A Comprehensive and Dated Phylogenomic Analysis of Butterflies. <i>Current Biology</i> , 2018 , 28, 770-778.e56.3		142
101	Phylogenomics reveals the evolutionary timing and pattern of butterflies and moths. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 22657-22663	11.5	117
100	Phylogenomics provides strong evidence for relationships of butterflies and moths. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20140970	4.4	116
99	Phylotranscriptomics: saturated third codon positions radically influence the estimation of trees based on next-gen data. <i>Genome Biology and Evolution</i> , 2013 , 5, 2082-92	3.9	79
98	Can deliberately incomplete gene sample augmentation improve a phylogeny estimate for the advanced moths and butterflies (Hexapoda: Lepidoptera)?. <i>Systematic Biology</i> , 2011 , 60, 782-96	8.4	78
97	Resolving Relationships among the Megadiverse Butterflies and Moths with a Novel Pipeline for Anchored Phylogenomics. <i>Systematic Biology</i> , 2018 , 67, 78-93	8.4	74
96	The Global Invertebrate Genomics Alliance (GIGA): developing community resources to study diverse invertebrate genomes. <i>Journal of Heredity</i> , 2014 , 105, 1-18	2.4	70
95	Phylogeny and biogeography of hawkmoths (Lepidoptera: Sphingidae): evidence from five nuclear genes. <i>PLoS ONE</i> , 2009 , 4, e5719	3.7	70
94	Evidence for common horizontal transmission of Wolbachia among butterflies and moths. <i>BMC Evolutionary Biology</i> , 2016 , 16, 118	3	68
93	A molecular phylogeny for the oldest (nonditrysiian) lineages of extant Lepidoptera, with implications for classification, comparative morphology and life-history evolution. <i>Systematic Entomology</i> , 2015 , 40, 671-704	3.4	53
92	An improved method for utilizing high-throughput amplicon sequencing to determine the diets of insectivorous animals. <i>Molecular Ecology Resources</i> , 2019 , 19, 176-190	8.4	49
91	Moth tails divert bat attack: evolution of acoustic deflection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2812-6	11.5	48

90	A molecular phylogeny and revised higher-level classification for the leaf-mining moth family Gracillariidae and its implications for larval host-use evolution. <i>Systematic Entomology</i> , 2017 , 42, 60-81	3.4	43
89	DNA barcoding reveals a largely unknown fauna of Gracillariidae leaf-mining moths in the Neotropics. <i>Molecular Ecology Resources</i> , 2014 , 14, 286-96	8.4	40
88	Increased gene sampling strengthens support for higher-level groups within leaf-mining moths and relatives (Lepidoptera: Gracillariidae). <i>BMC Evolutionary Biology</i> , 2011 , 11, 182	3	40
87	A global checklist of the Bombycoidea (Insecta: Lepidoptera). <i>Biodiversity Data Journal</i> , 2018 , e22236	1.8	38
86	Tempo and mode of antibat ultrasound production and sonar jamming in the diverse hawkmoth radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6407-12	11.5	37
85	Anthropogenic noise changes arthropod abundances. <i>Ecology and Evolution</i> , 2017 , 7, 2977-2985	2.8	35
84	Lepidoptera genomes: current knowledge, gaps and future directions. <i>Current Opinion in Insect Science</i> , 2018 , 25, 99-105	5.1	35
83	Anchored phylogenomics illuminates the skipper butterfly tree of life. <i>BMC Evolutionary Biology</i> , 2018 , 18, 101	3	30
82	Body size affects the evolution of eyespots in caterpillars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6664-9	11.5	28
81	Phylogeny and feeding trait evolution of the mega-diverse Gelechioidea (Lepidoptera: Obtectomera): new insight from 19 nuclear genes. <i>Systematic Entomology</i> , 2016 , 41, 112-132	3.4	28
80	Maintenance of host DNA integrity in field-preserved mosquito (Diptera: Culicidae) blood meals for identification by DNA barcoding. <i>Parasites and Vectors</i> , 2016 , 9, 503	4	25
79	Museum specimens provide phylogenomic data to resolve relationships of sack-bearer moths (Lepidoptera, Mimallonoidea, Mimallonidae). <i>Systematic Entomology</i> , 2018 , 43, 729-761	3.4	24
78	Identification of as a specialist of annelids broadens known mosquito host use patterns. <i>Communications Biology</i> , 2018 , 1, 92	6.7	23
77	New Insights into the Evolution of the W Chromosome in Lepidoptera. <i>Journal of Heredity</i> , 2017 , 108, 709-719	2.4	23
76	Barcoding blood meals: New vertebrate-specific primer sets for assigning taxonomic identities to host DNA from mosquito blood meals. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006767	4.8	23
75	Role of Caribbean Islands in the diversification and biogeography of Neotropical Heraclides swallowtails. <i>Cladistics</i> , 2015 , 31, 291-314	3.5	22
74	Hawkmoths produce anti-bat ultrasound. <i>Biology Letters</i> , 2013 , 9, 20130161	3.6	22
73	Fern Laminal Scales Protect Against Photoinhibition from Excess Light. <i>American Fern Journal</i> , 2006 , 96, 83-92	0.6	22

72	Phylogenomics resolves major relationships and reveals significant diversification rate shifts in the evolution of silk moths and relatives. <i>BMC Evolutionary Biology</i> , 2019 , 19, 182	3	21
71	A comprehensive molecular phylogeny of tiger beetles (Coleoptera, Carabidae, Cicindelinae). <i>Systematic Entomology</i> , 2019 , 44, 305-321	3.4	20
70	Phylogenetics of moth-like butterflies (Papilionoidea: Hedyliidae) based on a new 13-locus target capture probe set. <i>Molecular Phylogenetics and Evolution</i> , 2018 , 127, 600-605	4.1	19
69	Evolution of <i>Manduca sexta</i> hornworms and relatives: biogeographical analysis reveals an ancestral diversification in Central America. <i>Molecular Phylogenetics and Evolution</i> , 2013 , 68, 381-6	4.1	19
68	Four hundred shades of brown: Higher level phylogeny of the problematic Euptychiina (Lepidoptera, Nymphalidae, Satyrinae) based on hybrid enrichment data. <i>Molecular Phylogenetics and Evolution</i> , 2019 , 131, 116-124	4.1	17
67	Diel behavior in moths and butterflies: a synthesis of data illuminates the evolution of temporal activity. <i>Organisms Diversity and Evolution</i> , 2018 , 18, 13-27	1.7	17
66	The evolution of anti-bat sensory illusions in moths. <i>Science Advances</i> , 2018 , 4, eaar7428	14.3	16
65	Molecular characterization and evolutionary insights into potential sex-determination genes in the western orchard predatory mite <i>Metaseiulus occidentalis</i> (Chelicerata: Arachnida: Acari: Phytoseiidae). <i>Journal of Biomolecular Structure and Dynamics</i> , 2015 , 33, 1239-53	3.6	16
64	The butterfly subfamily Pseudopontiinae is not monobasic: marked genetic diversity and morphology reveal three new species of <i>Pseudopontia</i> (Lepidoptera: Pieridae). <i>Systematic Entomology</i> , 2011 , 36, 139-163	3.4	16
63	Preserving and vouchering butterflies and moths for large-scale museum-based molecular research. <i>PeerJ</i> , 2016 , 4, e2160	3.1	15
62	Convergent evolution of morphology and habitat use in the explosive Hawaiian fancy case caterpillar radiation. <i>Journal of Evolutionary Biology</i> , 2013 , 26, 1763-73	2.3	14
61	The latitudinal diversity gradient in New World swallowtail butterflies is caused by contrasting patterns of out-of- and into-the-tropics dispersal. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1447-1458	6.1	14
60	Phylogeny of snout butterflies (Lepidoptera: Nymphalidae: Libytheinae): combining evidence from the morphology of extant, fossil, and recently extinct taxa. <i>Cladistics</i> , 2009 , 25, 263-278	3.5	13
59	A Comparative Analysis of Sonic Defences in Bombycoidea Caterpillars. <i>Scientific Reports</i> , 2016 , 6, 31469	4.9	12
58	Aggregated occurrence records of the federally endangered Poweshiek skipperling (). <i>Biodiversity Data Journal</i> , 2018 , e29081	1.8	12
57	Out of the Orient: Post-Tethyan transoceanic and trans-Arabian routes fostered the spread of Baorini skippers in the Afrotropics. <i>Systematic Entomology</i> , 2019 , 44, 926-938	3.4	11
56	A review of the occurrence and diversity of the sphragis in butterflies (Lepidoptera, Papilionoidea). <i>ZooKeys</i> , 2017 , 41-70	1.2	11
55	Assessment of North American arthropod collections: prospects and challenges for addressing biodiversity research. <i>PeerJ</i> , 2019 , 7, e8086	3.1	11

54	Origin and macroevolution of micro-moths on sunken Hawaiian Islands. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	11
53	LepNet: The Lepidoptera of North America Network. <i>Zootaxa</i> , 2017 , 4247, 73-77	0.5	10
52	Functional characterization of the hawkmoth transcriptome reveals strong expression of phorbol ester detoxification and seasonal cold hardiness genes. <i>Frontiers in Zoology</i> , 2018 , 15, 20	2.8	10
51	Systematics, revisionary taxonomy, and biodiversity of Afrotropical Lithocolletinae (Lepidoptera: Gracillariidae). <i>Zootaxa</i> , 2012 , 3594, 1	0.5	10
50	Three new species of Fancy Case caterpillars from threatened forests of Hawaii (Lepidoptera, Cosmopterigidae, Hyposmocoma). <i>ZooKeys</i> , 2012 , 1-20	1.2	10
49	Thirty-foot telescopic nets, bug-collecting video games, and beetle pets: Entomology in modern Japan. <i>American Entomologist</i> , 2007 , 53, 160-172	0.6	10
48	Five species of Gracillariidae (Lepidoptera) new to Korea. <i>Entomological Research</i> , 2010 , 40, 131-135	1.3	9
47	Transcriptomics illuminate the phylogenetic backbone of tiger beetles. <i>Biological Journal of the Linnean Society</i> , 2020 , 129, 740-751	1.9	8
46	Evolutionary Framework for Lepidoptera Model Systems. <i>Contemporary Topics in Entomology Series</i> , 2009 ,		8
45	A phylogenomic analysis of lichen-feeding tiger moths uncovers evolutionary origins of host chemical sequestration. <i>Molecular Phylogenetics and Evolution</i> , 2018 , 121, 23-34	4.1	7
44	Interactions between the invasive Burmese python, <i>Python bivittatus</i> Kuhl, and the local mosquito community in Florida, USA. <i>PLoS ONE</i> , 2018 , 13, e0190633	3.7	7
43	Anchored hybrid enrichment phylogenomics resolves the backbone of erebine moths. <i>Molecular Phylogenetics and Evolution</i> , 2019 , 131, 99-105	4.1	7
42	Postdocs in Science: A Comparison between China and the United States. <i>BioScience</i> , 2015 , 65, 1088-1095.	5.7	6
41	Phylogenetics and Species Status of Hawaii's Endangered Blackburn's Sphinx Moth, <i>Manduca blackburni</i> (Lepidoptera: Sphingidae). <i>Pacific Science</i> , 2012 , 66, 31-41	0.9	6
40	External morphology of adult <i>Libythea celtis</i> (Laicharting [1782]) (Lepidoptera: Nymphalidae). <i>Zoological Science</i> , 2012 , 29, 463-76	0.8	6
39	De novo genome assemblies of butterflies. <i>GigaScience</i> , 2021 , 10,	7.6	6
38	Light environment drives evolution of color vision genes in butterflies and moths. <i>Communications Biology</i> , 2021 , 4, 177	6.7	6
37	Predator-induced stress responses in insects: A review. <i>Journal of Insect Physiology</i> , 2020 , 122, 104039	2.4	5

36	Molecular Phylogeny, Revised Higher Classification, and Implications for Conservation of Endangered Hawaiian Leaf-Mining Moths (Lepidoptera: Gracillariidae: Philodoria)1. <i>Pacific Science</i> , 2016 , 70, 361	0.9	5
35	A molecular phylogeny of Eumorpha (Lepidoptera: Sphingidae) and the evolution of anti-predator larval eyespots. <i>Systematic Entomology</i> , 2015 , 40, 401-408	3.4	5
34	Climate change effects on animal ecology: butterflies and moths as a case study. <i>Biological Reviews</i> , 2021 , 96, 2113-2126	13.5	5
33	Assessing support for Blaberoidea phylogeny suggests optimal locus quality. <i>Systematic Entomology</i> , 2021 , 46, 157-171	3.4	5
32	Conserved ancestral tropical niche but different continental histories explain the latitudinal diversity gradient in brush-footed butterflies. <i>Nature Communications</i> , 2021 , 12, 5717	17.4	5
31	Systematic revision and review of the extant and fossil snout butterflies (Lepidoptera: Nymphalidae: Libytheinae). <i>Zootaxa</i> , 2013 , 3631, 1-74	0.5	4
30	Reclassification of the Sack-bearer Moths (Lepidoptera, Mimallonoidea, Mimallonidae). <i>ZooKeys</i> , 2019 , 1-114	1.2	4
29	Decline of Amateur Lepidoptera Collectors Threatens the Future of Specimen-Based Research. <i>BioScience</i> , 2021 , 71, 396-404	5.7	4
28	Taxonomic history and invasion biology of two Phyllonorycter leaf miners (Lepidoptera: Gracillariidae) with links to taxonomic and molecular datasets. <i>Zootaxa</i> , 2013 , 3709, 341-62	0.5	3
27	The evolution of two distinct strategies of moth flight. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210632	4.1	3
26	Hawaiian (Lepidoptera, Gracillariidae, Ornixolinae) leaf mining moths on (Primulaceae): two new species and biological data. <i>ZooKeys</i> , 2018 , 109-141	1.2	3
25	Adaptive shifts underlie the divergence in wing morphology in bombycoid moths		3
24	Developing a vocabulary and ontology for modeling insect natural history data: example data, use cases, and competency questions. <i>Biodiversity Data Journal</i> , 2019 , 7, e33303	1.8	2
23	A new target capture phylogeny elucidates the systematics and evolution of wing coupling in sack-bearer moths. <i>Systematic Entomology</i> , 2020 , 45, 653-669	3.4	2
22	Comparative Phylogenetics of Papilio Butterfly Wing Shape and Size Demonstrates Independent Hindwing and Forewing Evolution. <i>Systematic Biology</i> , 2020 , 69, 813-819	8.4	2
21	Phylogeny of the Hawkmoth Tribe Ambulycini (Lepidoptera: Sphingidae): Mitogenomes from Museum Specimens Resolve Major Relationships. <i>Insect Systematics and Diversity</i> , 2019 , 3,	1.8	2
20	Afrotropics on the wing: phylogenomics and historical biogeography of awl and policeman skippers. <i>Systematic Entomology</i> , 2021 , 46, 172-185	3.4	2
19	Is Sexual Conflict a Driver of Speciation? A Case Study With a Tribe of Brush-footed Butterflies. <i>Systematic Biology</i> , 2021 , 70, 413-420	8.4	2

18	Adaptive shifts underlie the divergence in wing morphology in bombycoid moths. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20210677	4.4	2
17	External egg morphology of the Hawaiian dancing moth, <i>Dryadula terpsichorella</i> (Lepidoptera: Tineidae). <i>Journal of Natural History</i> , 2014 , 48, 969-974	0.5	1
16	A new institution devoted to insect science: The Florida Museum of Natural History, McGuire Center for Lepidoptera and Biodiversity. <i>Insect Science</i> , 2012 , 19, 426-428	3.6	1
15	Notes on the Larva and Natural History of <i>Lacosoma arizonicum</i> Dyar (Mimallonoidea, Mimallonidae) with New Host and Parasitoid Records. <i>Journal of the Lepidopterists Society</i> , 2017 , 71, 177-181	0.4	1
14	A diversification relay race from Caribbean-Mesoamerica to the Andes: historical biogeography of hawkmoths.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20212435	4.4	1
13	Light environment drives evolution of color vision genes in butterflies and moths		1
12	Review of recent taxonomic changes to the emerald moths (Lepidoptera: Geometridae: Geometrinae). <i>Biodiversity Data Journal</i> , 2020 , 8, e52190	1.8	1
11	Phylogeny of gracillariid leaf-mining moths: evolution of larval behaviour inferred from phylogenomic and Sanger data. <i>Cladistics</i> , 2021 ,	3.5	1
10	Spatial phylogenetics of butterflies in relation to environmental drivers and angiosperm diversity across North America		1
9	The evolution of two distinct strategies of moth flight		1
8	Evolutionary trade-offs between male secondary sexual traits revealed by a phylogeny of the hyperdiverse tribe Eumaeini (Lepidoptera: Lycaenidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20202512	4.4	1
7	Revisiting the evolution of <i>Ostrinia</i> moths with phylogenomics (Pyraloidea: Crambidae: Pyraustinae). <i>Systematic Entomology</i> , 2021 , 46, 827-838	3.4	1
6	Food Plant Shifts Drive the Diversification of Sack-Bearer Moths. <i>American Naturalist</i> , 2021 , 198, E170-E184	3.7	1
5	Portable locomotion activity monitor (pLAM): A cost-effective setup for robust activity tracking in small animals. <i>Methods in Ecology and Evolution</i> , 2022 , 13, 805-812	7.7	1
4	Molecular phylogeny of the tribe Candalidini (Lepidoptera: Lycaenidae): systematics, diversification and evolutionary history. <i>Systematic Entomology</i> , 2020 , 45, 703-722	3.4	0
3	Entomology in Modern Japan: Pension Suzuran, The Japanese Bug Hotel. <i>American Entomologist</i> , 2019 , 65, 196-200	0.6	0
2	Spatial phylogenetics of butterflies in relation to environmental drivers and angiosperm diversity across North America. <i>iScience</i> , 2021 , 24, 102239	6.1	0
1	Historical biogeography of Heteropterinae skippers via Beringian and post-Tethyan corridors. <i>Zoologica Scripta</i> , 2021 , 50, 100-111	2.5	0

