Akito Kawahara

List of Publications by Year
in descending order

118	6,835	156536	84171
papers	citations	32 h-index	75 g-index

131	131	131	7334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular phylogeny, systematics and generic classification of the butterfly subfamily Trapezitinae (Lepidoptera: Papilionoidea: Hesperiidae). Zoological Journal of the Linnean Society, 2022, 195, 1407-1421.	1.0	3
2	Phylogeny of gracillariid leafâ€mining moths: evolution of larval behaviour inferred from phylogenomic and Sanger data. Cladistics, 2022, 38, 277-300.	1.5	11
3	Hidden Phylogenomic Signal Helps Elucidate Arsenurine Silkmoth Phylogeny and the Evolution of Body Size and Wing Shape Trade-Offs. Systematic Biology, 2022, 71, 859-874.	2.7	5
4	A diversification relay race from Caribbean-Mesoamerica to the Andes: historical biogeography of Xylophanes hawkmoths. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212435.	1.2	6
5	Portable locomotion activity monitor (<scp>pLAM</scp>): A costâ€effective setup for robust activity tracking in small animals. Methods in Ecology and Evolution, 2022, 13, 805-812.	2.2	3
6	Population differentiation and structural variation in theManduca sextagenome across the United States. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	6
7	A DNA Extraction Method for Insects From Sticky Traps: Targeting a Low Abundance Pest, Phthorimaea absoluta (Lepidoptera: Gelechiidae), in Mixed Species Communities. Journal of Economic Entomology, 2022, 115, 844-851.	0.8	11
8	A Review of False Heads in Lycaenid Butterflies. Journal of the Lepidopterists' Society, 2022, 76, .	0.0	1
9	Anti-bat ultrasound production in moths is globally and phylogenetically widespread. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
10	James S. Miller (1953â€“2022): Remembering a Great Entomologist, Musician, and Friend. American Entomologist, 2022, 68, 59-60.	0.1	0
11	LepTraits 1.0 A globally comprehensive dataset of butterfly traits. Scientific Data, 2022, 9, .	2.4	22
12	Afrotropics on the wing: phylogenomics and historical biogeography of awl and policeman skippers. Systematic Entomology, 2021, 46, 172-185.	1.7	7
13	Historical biogeography of Heteropterinae skippers via Beringian and postâ€Tethyan corridors. Zoologica Scripta, 2021, 50, 100-111.	0.7	5
14	Is Sexual Conflict a Driver of Speciation? A Case Study With a Tribe of Brush-footed Butterflies. Systematic Biology, 2021, 70, 413-420.	2.7	4
15	Assessing support for <scp>Blaberoidea</scp> phylogeny suggests optimal locus quality. Systematic Entomology, 2021, 46, 157-171.	1.7	18
16	Eight simple actions that individuals can take to save insects from global declines. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
17	Light environment drives evolution of color vision genes in butterflies and moths. Communications Biology, 2021, 4, 177.	2.0	34
18	Spatial phylogenetics of butterflies in relation to environmental drivers and angiosperm diversity across North America. IScience, 2021, 24, 102239.	1.9	22

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19	Evolutionary trade-offs between male secondary sexual traits revealed by a phylogeny of the hyperdiverse tribe Eumaeini (Lepidoptera: Lycaenidae). Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202512.	1.2	9
20	Climate change effects on animal ecology: butterflies and moths as a case study. Biological Reviews, 2021, 96, 2113-2126.	4.7	63
21	De novo genome assemblies of butterflies. GigaScience, 2021, 10, .	3.3	24
22	Adaptive shifts underlie the divergence in wing morphology in bombycoid moths. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210677.	1.2	5
23	Revisiting the evolution of Ostrinia moths with phylogenomics (Pyraloidea: Crambidae:) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.7	9
24	Early Evidence for Sexually Dimorphic, Ultraviolet Eyespots in Parnassius Smintheus, Doubleday, [1847]. Journal of the Lepidopterists' Society, 2021, 75, .	0.0	0
25	Experimental river noise alters arthropod abundance. Oikos, 2021, 130, 2001-2014.	1.2	5
26	Conserved ancestral tropical niche but different continental histories explain the latitudinal diversity gradient in brush-footed butterflies. Nature Communications, 2021, 12, 5717.	5.8	33
27	Food Plant Shifts Drive the Diversification of Sack-Bearer Moths. American Naturalist, 2021, 198, E170-E184.	1.0	8
28	Decline of Amateur Lepidoptera Collectors Threatens the Future of Specimen-Based Research. BioScience, 2021, 71, 396-404.	2.2	14
29	First Annotated Genome of a Mandibulate Moth, Neomicropteryx cornuta, Generated Using PacBio HiFi Sequencing. Genome Biology and Evolution, 2021, 13, .	1.1	7
30	The evolution of two distinct strategies of moth flight. Journal of the Royal Society Interface, 2021, 18, 20210632.	1.5	10
31	Molecular phylogeny of the tribe Candalidini (Lepidoptera: Lycaenidae): systematics, diversification and evolutionary history. Systematic Entomology, 2020, 45, 703-722.	1.7	6
32	Predator-induced stress responses in insects: A review. Journal of Insect Physiology, 2020, 122, 104039.	0.9	23
33	Transcriptomics illuminate the phylogenetic backbone of tiger beetles. Biological Journal of the Linnean Society, 2020, 129, 740-751.	0.7	16
34	A new target capture phylogeny elucidates the systematics and evolution of wing coupling in sackâ€bearer moths. Systematic Entomology, 2020, 45, 653-669.	1.7	7
35	Comparative Phylogenetics of Papilio Butterfly Wing Shape and Size Demonstrates Independent Hindwing and Forewing Evolution. Systematic Biology, 2020, 69, 813-819.	2.7	23
36	Review of recent taxonomic changes to the emerald moths (Lepidoptera: Geometridae: Geometrinae). Biodiversity Data Journal, 2020, 8, e52190.	0.4	2

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37	A comprehensive molecular phylogeny of tiger beetles (Coleoptera, Carabidae, Cicindelinae). Systematic Entomology, 2019, 44, 305-321.	1.7	31
38	Phylogenomics reveals the evolutionary timing and pattern of butterflies and moths. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22657-22663.	3.3	291
39	Entomology in Modern Japan: Pension Suzuran, The Japanese Bug Hotel. American Entomologist, 2019, 65, 196-200.	0.1	1
40	Phylogenomics resolves major relationships and reveals significant diversification rate shifts in the evolution of silk moths and relatives. BMC Evolutionary Biology, 2019, 19, 182.	3.2	49
41	Intersexual â€˜Arms Raceâ€™ and the Evolution of the Sphragis inPteronymiaButterflies. Insect Systematics and Diversity, 2019, 3, .	0.7	2
42	Out of the Orient: Postâ€Tethyan transoceanic and transâ€Arabian routes fostered the spread of Baorini skippers in the Afrotropics. Systematic Entomology, 2019, 44, 926-938.	1.7	16
43	Developing a vocabulary and ontology for modeling insect natural history data: example data, use cases, and competency questions. Biodiversity Data Journal, 2019, 7, e33303.	0.4	3
44	Two New Species of Psychocampa and a Possible Case of Visual Mimicry in the Sack-Bearer Moths (Lepidoptera: Mimallonoidea). Insect Systematics and Diversity, 2019, 3, .	0.7	0
45	Phylogeny of the Hawkmoth Tribe Ambulycini (Lepidoptera: Sphingidae): Mitogenomes from Museum Specimens Resolve Major Relationships. Insect Systematics and Diversity, 2019, 3, .	0.7	5
46	Four hundred shades of brown: Higher level phylogeny of the problematic Euptychiina (Lepidoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2019, 131, 116-124.	1.2	36
47	Anchored hybrid enrichment phylogenomics resolves the backbone of erebine moths. Molecular Phylogenetics and Evolution, 2019, 131, 99-105.	1.2	18
48	An improved method for utilizing highâ€throughput amplicon sequencing to determine the diets of insectivorous animals. Molecular Ecology Resources, 2019, 19, 176-190.	2.2	109
49	Reclassification of the Sack-bearer Moths (Lepidoptera, Mimallonoidea, Mimallonidae). ZooKeys, 2019, 815, 1-114.	0.5	8
50	Assessment of North American arthropod collections: prospects and challenges for addressing biodiversity research. PeerJ, 2019, 7, e8086.	0.9	29
51	A Comprehensive and Dated Phylogenomic Analysis of Butterflies. Current Biology, 2018, 28, 770-778.e5.	1.8	249
52	Lepidoptera genomes: current knowledge, gaps and future directions. Current Opinion in Insect Science, 2018, 25, 99-105.	2.2	50
53	A phylogenomic analysis of lichen-feeding tiger moths uncovers evolutionary origins of host chemical sequestration. Molecular Phylogenetics and Evolution, 2018, 121, 23-34.	1.2	17
54	Resolving Relationships among the Megadiverse Butterflies and Moths with a Novel Pipeline for Anchored Phylogenomics. Systematic Biology, 2018, 67, 78-93.	2.7	161

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55	Diel behavior in moths and butterflies: a synthesis of data illuminates the evolution of temporal activity. Organisms Diversity and Evolution, 2018, 18, 13-27.	0.7	37
56	A global checklist of the Bombycoidea (Insecta: Lepidoptera). Biodiversity Data Journal, 2018, 6, e22236.	0.4	67
57	Barcoding blood meals: New vertebrate-specific primer sets for assigning taxonomic identities to host DNA from mosquito blood meals. PLoS Neglected Tropical Diseases, 2018, 12, e0006767.	1.3	60
58	Origin and macroevolution of micro-moths on sunken Hawaiian Islands. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181047.	1.2	24
59	Museum specimens provide phylogenomic data to resolve relationships of sackâ€bearer moths (<scp>L</scp>epidoptera, <scp>M</scp>imallonoidea, <scp>M</scp>imallonidae). Systematic Entomology, 2018, 43, 729-761.	1.7	35
60	The evolution of anti-bat sensory illusions in moths. Science Advances, 2018, 4, eaar7428.	4.7	35
61	Anchored phylogenomics illuminates the skipper butterfly tree of life. BMC Evolutionary Biology, 2018, 18, 101.	3.2	47
62	Identification of Uranotaenia sapphirina as a specialist of annelids broadens known mosquito host use patterns. Communications Biology, 2018, 1, 92.	2.0	40
63	Functional characterization of the Hyles euphorbiae hawkmoth transcriptomeÂreveals strong expression of phorbol ester detoxification and seasonal cold hardiness genes. Frontiers in Zoology, 2018, 15, 20.	0.9	13
64	Interactions between the invasive Burmese python, Python bivittatus Kuhl, and the local mosquito community in Florida, USA. PLoS ONE, 2018, 13, e0190633.	1.1	9
65	Phylogenetics of moth-like butterflies (Papilionoidea: Hedylidae) based on a new 13-locus target capture probe set. Molecular Phylogenetics and Evolution, 2018, 127, 600-605.	1.2	33
66	Aggregated occurrence records of the federally endangered Poweshiek skipperling (Oarisma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	0.4	16
67	Hawaiian Philodoria (Lepidoptera, Gracillariidae, Ornixolinae) leaf mining moths on Myrsine (Primulaceae): two new species and biological data. ZooKeys, 2018, 773, 109-141.	0.5	4
68	LepNet: The Lepidoptera of North America Network. Zootaxa, 2017, 4247, 73-77.	0.2	15
69	Anthropogenic noise changes arthropod abundances. Ecology and Evolution, 2017, 7, 2977-2985.	0.8	52
70	Notes on the Larva and Natural History of Lacosoma arizonicum Dyar (Mimallonoidea,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 177-181.	0.0	5
71	New Insights into the Evolution of the W Chromosome in Lepidoptera. Journal of Heredity, 2017, 108, 709-719.	1.0	44
72	The latitudinal diversity gradient in New World swallowtail butterflies is caused by contrasting patterns of outâ€ofâ€•and intoâ€theâ€tropics dispersal. Global Ecology and Biogeography, 2017, 26, 1447-1458.	2.7	24

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73	A molecular phylogeny and revised higherâ€level classification for the leafâ€mining moth family <scp>G</scp>racillariidae and its implications for larval hostâ€use evolution. Systematic Entomology, 2017, 42, 60-81.	1.7	61
74	A review of the occurrence and diversity of the sphragis in butterflies (Lepidoptera, Papilionoidea). ZooKeys, 2017, 694, 41-70.	0.5	17
75	Preserving and vouchering butterflies and moths for large-scale museum-based molecular research. PeerJ, 2016, 4, e2160.	0.9	22
76	Maintenance of host DNA integrity in field-preserved mosquito (Diptera: Culicidae) blood meals for identification by DNA barcoding. Parasites and Vectors, 2016, 9, 503.	1.0	39
77	Phylogeny and feeding trait evolution of the megaâ€diverse Gelechioidea (Lepidoptera: Obtectomera): new insight from 19 nuclear genes. Systematic Entomology, 2016, 41, 112-132.	1.7	39
78	Molecular Phylogeny, Revised Higher Classification, and Implications for Conservation of Endangered Hawaiian Leaf-Mining Moths (Lepidoptera: Gracillariidae: Philodoria)1. Pacific Science, 2016, 70, 361.	0.2	5
79	A Comparative Analysis of Sonic Defences in Bombycoidea Caterpillars. Scientific Reports, 2016, 6, 31469.	1.6	16
80	Evidence for common horizontal transmission of Wolbachia among butterflies and moths. BMC Evolutionary Biology, 2016, 16, 118.	3.2	103
81	A molecular phylogeny for the oldest (nonditrysian) lineages of extant <scp>L</scp>epidoptera, with implications for classification, comparative morphology and lifeâ€history evolution. Systematic Entomology, 2015, 40, 671-704.	1.7	82
82	Molecular characterization and evolutionary insights into potential sex-determination genes in the western orchard predatory miteMetaseiulus occidentalis(Chelicerata: Arachnida: Acari: Phytoseiidae). Journal of Biomolecular Structure and Dynamics, 2015, 33, 1239-1253.	2.0	20
83	A molecular phylogeny of Eumorpha (<scp>L</scp>epidoptera: <scp>S</scp>phingidae) and the evolution of antiâ€predator larval eyespots. Systematic Entomology, 2015, 40, 401-408.	1.7	8
84	Moth tails divert bat attack: Evolution of acoustic deflection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2812-2816.	3.3	66
85	A framework to assess evolutionary responses to anthropogenic light and sound. Trends in Ecology and Evolution, 2015, 30, 550-560.	4.2	248
86	Tempo and mode of antibat ultrasound production and sonar jamming in the diverse hawkmoth radiation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6407-6412.	3.3	55
87	Body size affects the evolution of eyespots in caterpillars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6664-6669.	3.3	46
88	Postdocs in Science: A Comparison between China and the United States. BioScience, 2015, 65, 1088-1095.	2.2	9
89	Role of <scp>C</scp>aribbean Islands in the diversification and biogeography of Neotropical <scp>H</scp>eraclides swallowtails. Cladistics, 2015, 31, 291-314.	1.5	30
90	The Global Invertebrate Genomics Alliance (GIGA): Developing Community Resources to Study Diverse Invertebrate Genomes. Journal of Heredity, 2014, 105, 1-18.	1.0	96

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91	<scp>DNA</scp> barcoding reveals a largely unknown fauna of <scp>G</scp>racillariidae leafâ€mining moths in the <scp>N</scp>eotropics. Molecular Ecology Resources, 2014, 14, 286-296.	2.2	45
92	Phylogenomics resolves the timing and pattern of insect evolution. Science, 2014, 346, 763-767.	6.0	2,096
93	External egg morphology of the Hawaiian dancing moth,Dryadaula terpsichorella(Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	1
94	Phylogenomics provides strong evidence for relationships of butterflies and moths. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140970.	1.2	166
95	Convergent evolution of morphology and habitat use in the explosive <scp>H</scp>awaiian fancy case caterpillar radiation. Journal of Evolutionary Biology, 2013, 26, 1763-1773.	0.8	16
96	Evolution of Manduca sexta hornworms and relatives: Biogeographical analysis reveals an ancestral diversification in Central America. Molecular Phylogenetics and Evolution, 2013, 68, 381-386.	1.2	25
97	Hawkmoths produce anti-bat ultrasound. Biology Letters, 2013, 9, 20130161.	1.0	36
98	Phylotranscriptomics: Saturated Third Codon Positions Radically Influence the Estimation of Trees Based on Next-Gen Data. Genome Biology and Evolution, 2013, 5, 2082-2092.	1.1	110
99	A Large-Scale, Higher-Level, Molecular Phylogenetic Study of the Insect Order Lepidoptera (Moths and) Tj ETQq1 1 0.784314 rgBT /Ov	1.1	253
100	Systematic revision and review of the extant and fossil snout butterflies (Lepidoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0.2	5
101	Taxonomic history and invasion biology of two Phyllonorycter leaf miners (Lepidoptera: Gracillariidae) with links to taxonomic and molecular datasets . Zootaxa, 2013, 3709, 341.	0.2	5
102	Three new species of Fancy Case caterpillars from threatened forests of Hawaii (Lepidoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	0.5	11
103	Phylogenetics and Species Status of Hawaiâ€˜i's Endangered Blackburn's Sphinx Moth, Manduca blackburni (Lepidoptera: Sphingidae). Pacific Science, 2012, 66, 31-41.	0.2	7
104	External Morphology of Adult Libythea celtis (Laicharting [1782]) (Lepidoptera: Nymphalidae). Zoological Science, 2012, 29, 463.	0.3	6
105	Systematics, revisionary taxonomy, and biodiversity of Afrotropical Lithocolletinae (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	0.2	19
106	A new institution devoted to insect science: The Florida Museum of Natural History, McGuire Center for Lepidoptera and Biodiversity. Insect Science, 2012, 19, 426-428.	1.5	1
107	Order Lepidoptera Linnaeus, 1758. In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. Zootaxa, 2011, 3148, .	0.2	398
108	The butterfly subfamily Pseudopontiinae is not monobasic: marked genetic diversity and morphology reveal three new species of Pseudopontia (Lepidoptera: Pieridae). Systematic Entomology, 2011, 36, 139-163.	1.7	19

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109	Increased gene sampling strengthens support for higher-level groups within leaf-mining moths and relatives (Lepidoptera: Gracillariidae). BMC Evolutionary Biology, 2011, 11, 182.	3.2	52
110	Can Deliberately Incomplete Gene Sample Augmentation Improve a Phylogeny Estimate for the Advanced Moths and Butterflies (Hexapoda: Lepidoptera)?. Systematic Biology, 2011, 60, 782-796.	2.7	87
111	Five species of Gracillariidae (Lepidoptera) new to Korea. Entomological Research, 2010, 40, 131-135.	0.6	9
112	Phylogeny and Biogeography of Hawkmoths (Lepidoptera: Sphingidae): Evidence from Five Nuclear Genes. PLoS ONE, 2009, 4, e5719.	1.1	87
113	Phylogeny of snout butterflies (Lepidoptera: Nymphalidae: Libytheinae): combining evidence from the morphology of extant, fossil, and recently extinct taxa. Cladistics, 2009, 25, 263-278.	1.5	15
114	Toward reconstructing the evolution of advanced moths and butterflies (Lepidoptera: Ditrysia): an initial molecular study. BMC Evolutionary Biology, 2009, 9, 280.	3.2	202
115	Thirty-foot telescopic nets, bug-collecting video games, and beetle pets: Entomology in modern Japan. American Entomologist, 2007, 53, 160-172.	0.1	17
116	Fern Laminar Scales Protect Against Photoinhibition from Excess Light. American Fern Journal, 2006, 96, 83-92.	0.2	27
117	Discovering Patterns of Biodiversity in Insects Using Deep Machine Learning. Biodiversity Information Science and Standards, 0, 3, .	0.0	1
118	Long-read HiFi sequencing correctly assembles repetitive heavy fibroin silk genes in new moth and caddisfly genomes. GigaByte, 0, 2022, 1-14.	0.0	17