

Matthew Forister

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

6,176
citations

37
h-index

76
g-index

142
ext. papers

7,844
ext. citations

5.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
128	A suite of rare microbes interacts with a dominant, heritable, fungal endophyte to influence plant trait expression. <i>ISME Journal</i> , 2021 , 15, 2763-2778	11.9	5
127	The Disappearance of Butterflies Nature's Best Hope. <i>American Entomologist</i> , 2021 , 67, 62-63	0.6	
126	Fewer butterflies seen by community scientists across the warming and drying landscapes of the American West. <i>Science</i> , 2021 , 371, 1042-1045	33.3	34
125	Are eastern and western monarch butterflies distinct populations? A review of evidence for ecological, phenotypic, and genetic differentiation and implications for conservation. <i>Conservation Science and Practice</i> , 2021 , 3, e432	2.2	0
124	The promise and the perils of resurveying to understand global change impacts. <i>Ecological Monographs</i> , 2021 , 91, e01435	9	7
123	Phytochemistry reflects different evolutionary history in traditional classes versus specialized structural motifs. <i>Scientific Reports</i> , 2021 , 11, 17247	4.9	0
122	Insect decline in the Anthropocene: Death by a thousand cuts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	182
121	Insects and recent climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	57
120	Caterpillars on a phytochemical landscape: The case of alfalfa and the Melissa blue butterfly. <i>Ecology and Evolution</i> , 2020 , 10, 4362-4374	2.8	3
119	Recent hybrids recapitulate ancient hybrid outcomes. <i>Nature Communications</i> , 2020 , 11, 2179	17.4	13
118	Pesticide Contamination of Milkweeds Across the Agricultural, Urban, and Open Spaces of Low-Elevation Northern California. <i>Frontiers in Ecology and Evolution</i> , 2020 , 8,	3.7	16
117	Spotlight on insects: trends, threats and conservation challenges. <i>Insect Conservation and Diversity</i> , 2020 , 13, 99-102	3.8	14
116	Loss of dominant caterpillar genera in a protected tropical forest. <i>Scientific Reports</i> , 2020 , 10, 422	4.9	35
115	A winner in the Anthropocene: changing host plant distribution explains geographical range expansion in the gulf fritillary butterfly. <i>Ecological Entomology</i> , 2020 , 45, 652-662	2.1	4
114	Distinguishing nutrient-dependent plant driven bacterial colonization patterns in alfalfa. <i>Environmental Microbiology Reports</i> , 2020 , 12, 70-77	3.7	4
113	Predicting patch occupancy reveals the complexity of host range expansion. <i>Science Advances</i> , 2020 , 6,	14.3	5
112	Thistledown velvet ants in the Desert Mimicry Ring and the evolution of white coloration: Müllerian mimicry, camouflage and thermal ecology. <i>Biology Letters</i> , 2020 , 16, 20200242	3.6	2

111	Genomic evidence of genetic variation with pleiotropic effects on caterpillar fitness and plant traits in a model legume. <i>Molecular Ecology</i> , 2019 , 28, 2967-2985	5.7	10
110	Vertical differentiation in tropical forest butterflies: a novel mechanism generating insect diversity?. <i>Biology Letters</i> , 2019 , 15, 20180723	3.6	4
109	Extreme heterogeneity of population response to climatic variation and the limits of prediction. <i>Global Change Biology</i> , 2019 , 25, 2127-2136	11.4	17
108	Rarity does not limit genetic variation or preclude subpopulation structure in the geographically restricted desert forb <i>Astragalus lentiginosus</i> var. <i>piscinensis</i> . <i>American Journal of Botany</i> , 2019 , 106, 260-269	2.7	5
107	Host plant-dependent effects of microbes and phytochemistry on the insect immune response. <i>Oecologia</i> , 2019 , 191, 141-152	2.9	8
106	Declines in insect abundance and diversity: We know enough to act now. <i>Conservation Science and Practice</i> , 2019 , 1, e80	2.2	64
105	Strong patterns of intraspecific variation and local adaptation in Great Basin plants revealed through a review of 75 years of experiments. <i>Ecology and Evolution</i> , 2019 , 9, 6259-6275	2.8	41
104	Preference and performance of Lepidoptera varies with tree age in juniper woodlands. <i>Ecological Entomology</i> , 2019 , 44, 140-150	2.1	1
103	Challenges and advances in the study of latitudinal gradients in multitrophic interactions, with a focus on consumer specialization. <i>Current Opinion in Insect Science</i> , 2019 , 32, 68-76	5.1	8
102	The predictability of genomic changes underlying a recent host shift in Melissa blue butterflies. <i>Molecular Ecology</i> , 2018 , 27, 2651-2666	5.7	16
101	Deconstruction of a plant-arthropod community reveals influential plant traits with nonlinear effects on arthropod assemblages. <i>Functional Ecology</i> , 2018 , 32, 1317-1328	5.6	13
100	A heritable symbiont and host-associated factors shape fungal endophyte communities across spatial scales. <i>Journal of Ecology</i> , 2018 , 106, 2274-2286	6	12
99	Embracing Colonizations: A New Paradigm for Species Association Dynamics. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 4-14	10.9	70
98	Impacts of a millennium drought on butterfly faunal dynamics. <i>Climate Change Responses</i> , 2018 , 5,		18
97	Modern approaches to study plant-insect interactions in chemical ecology. <i>Nature Reviews Chemistry</i> , 2018 , 2, 50-64	34.6	47
96	A Neutral Model for the Evolution of Diet Breadth. <i>American Naturalist</i> , 2017 , 190, E40-E54	3.7	21
95	Host conservatism, geography, and elevation in the evolution of a Neotropical moth radiation. <i>Evolution; International Journal of Organic Evolution</i> , 2017 , 71, 2885-2900	3.8	8
94	Interest exceeds understanding in public support of bee conservation. <i>Frontiers in Ecology and the Environment</i> , 2017 , 15, 460-466	5.5	42

93	Synchronous population dynamics in California butterflies explained by climatic forcing. <i>Royal Society Open Science</i> , 2017 , 4, 170190	3.3	4
92	Increasing neonicotinoid use and the declining butterfly fauna of lowland California. <i>Biology Letters</i> , 2016 , 12,	3.6	65
91	Understanding a migratory species in a changing world: climatic effects and demographic declines in the western monarch revealed by four decades of intensive monitoring. <i>Oecologia</i> , 2016 , 181, 819-30	2.9	28
90	Quantifying diet breadth through ordination of host association. <i>Ecology</i> , 2016 , 97, 842-9	4.6	16
89	The Many Dimensions of Diet Breadth: Phytochemical, Genetic, Behavioral, and Physiological Perspectives on the Interaction between a Native Herbivore and an Exotic Host. <i>PLoS ONE</i> , 2016 , 11, e0147971	3.7	17
88	Quantifying diet breadth through ordination of host association 2016 , 97, 842		1
87	Intraspecific phytochemical variation shapes community and population structure for specialist caterpillars. <i>New Phytologist</i> , 2016 , 212, 208-19	9.8	54
86	Human observers differ in ability to perceive insect diversity. <i>Environmental Conservation</i> , 2016 , 43, 376-380	3.8	1
85	Vertical stratification of the foliar fungal community in the world's tallest trees. <i>American Journal of Botany</i> , 2016 , 103, 2087-2095	2.7	19
84	An exploration of the fungal assemblage in each life history stage of the butterfly, <i>Lycaeides melissa</i> (Lycaenidae), as well as its host plant <i>Astragalus canadensis</i> (Fabaceae). <i>Fungal Ecology</i> , 2016 , 22, 10-16	4.1	7
83	Wherefore and Whither the Modeler: Understanding the Population Dynamics of Monarchs Will Require Integrative and Quantitative Techniques. <i>Annals of the Entomological Society of America</i> , 2016 , 109, 172-175	2	15
82	Midpoint attractors and species richness: Modelling the interaction between environmental drivers and geometric constraints. <i>Ecology Letters</i> , 2016 , 19, 1009-22	10	49
81	Morphological outcomes of gynandromorphism in <i>Lycaeides</i> butterflies (Lepidoptera: Lycaenidae). <i>Journal of Insect Science</i> , 2015 , 15,	2	5
80	A discrete truncated Pareto distribution. <i>Statistical Methodology</i> , 2015 , 26, 135-150		10
79	Phytochemical diversity drives plant-insect community diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10973-8	11.5	143
78	North American velvet ants form one of the world's largest known Müllerian mimicry complexes. <i>Current Biology</i> , 2015 , 25, R704-6	6.3	36
77	Impact of individual movement and changing resource availability on male-female encounter rates in an herbivorous insect. <i>Ecological Complexity</i> , 2015 , 24, 1-13	2.6	3
76	Global weather and local butterflies: variable responses to a large-scale climate pattern along an elevational gradient. <i>Ecology</i> , 2015 , 96, 2891-901	4.6	22

75	Beyond annual and seasonal averages: using temporal patterns of precipitation to predict butterfly richness across an elevational gradient. <i>Ecological Entomology</i> , 2015 , 40, 585-595	2.1	8
74	The evolution of novel host use is unlikely to be constrained by trade-offs or a lack of genetic variation. <i>Molecular Ecology</i> , 2015 , 24, 2777-93	5.7	57
73	Regional population differentiation in the morphologically diverse, elevationally widespread Nearctic skipper <i>Polites sabuleti</i> . <i>Journal of Biogeography</i> , 2015 , 42, 1787-1799	4.1	
72	The global distribution of diet breadth in insect herbivores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 442-7	11.5	321
71	Species with more volatile population dynamics are differentially impacted by weather. <i>Biology Letters</i> , 2015 , 11, 20140792	3.6	12
70	The utility of repeated presence data as a surrogate for counts: a case study using butterflies. <i>Journal of Insect Conservation</i> , 2014 , 18, 13-27	2.1	17
69	A nonlinear relationship between genetic diversity and productivity in a polyphagous seed beetle. <i>Oecologia</i> , 2014 , 175, 151-61	2.9	4
68	A hierarchical perspective on the diversity of butterfly species' responses to weather in the Sierra Nevada Mountains. <i>Ecology</i> , 2014 , 95, 2155-68	4.6	11
67	Admixture and the organization of genetic diversity in a butterfly species complex revealed through common and rare genetic variants. <i>Molecular Ecology</i> , 2014 , 23, 4555-73	5.7	114
66	Wolbachia infection and Lepidoptera of conservation concern. <i>Journal of Insect Science</i> , 2014 , 14, 6	2	8
65	Temporal and geographic variation in parasitoid attack with no evidence for ant protection of the Melissa blue butterfly, <i>Lycaeides melissa</i> . <i>Ecological Entomology</i> , 2014 , 39, 168-176	2.1	4
64	Geographic distribution, habitat association, and host quality for one of the most geographically restricted butterflies in North America: Thorne's hairstreak (<i>Mitoura thornei</i>). <i>Insect Conservation and Diversity</i> , 2014 , 7, 343-354	3.8	2
63	Contribution of urban expansion and a changing climate to decline of a butterfly fauna. <i>Conservation Biology</i> , 2014 , 28, 773-82	6	18
62	Specificity, rank preference, and the colonization of a non-native host plant by the Melissa blue butterfly. <i>Oecologia</i> , 2013 , 172, 177-88	2.9	26
61	Hybrid speciation and independent evolution in lineages of alpine butterflies. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 1055-68	3.8	41
60	Differential hippocampal gene expression is associated with climate-related natural variation in memory and the hippocampus in food-caching chickadees. <i>Molecular Ecology</i> , 2013 , 22, 397-408	5.7	25
59	Complex evolutionary history of the pallid dotted-blue butterfly (Lycaenidae: <i>Euphilotes pallescens</i>) in the Great Basin of western North America. <i>Journal of Biogeography</i> , 2013 , 40, 2059-2070	4.1	2
58	Family-Level Divergences in the Stinging Wasps (Hymenoptera: Aculeata), with Correlations to Angiosperm Diversification. <i>Evolutionary Biology</i> , 2013 , 40, 101-107	3	25

57	Permutation tests for analyzing cospeciation in multiple phylogenies: applications in tri-trophic ecology. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2013 , 12, 679-701	1.2	3
56	Geographically multifarious phenotypic divergence during speciation. <i>Ecology and Evolution</i> , 2013 , 3, 595-613	2.8	15
55	Ecological and evolutionary processes drive the origin and maintenance of imperfect mimicry. <i>PLoS ONE</i> , 2013 , 8, e61610	3.7	19
54	The population ecology of novel plant-herbivore interactions. <i>Oikos</i> , 2013 , 122, 657-666	4	31
53	Genomic regions with a history of divergent selection affect fitness of hybrids between two butterfly species. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 2167-81	3.8	133
52	Population genetic structure and its implications for adaptive variation in memory and the hippocampus on a continental scale in food-caching black-capped chickadees. <i>Molecular Ecology</i> , 2012 , 21, 4486-97	5.7	14
51	Identification of source-sink dynamics in mountain lions of the Great Basin. <i>Molecular Ecology</i> , 2012 , 21, 5689-701	5.7	59
50	Repeated evolution in overlapping mimicry rings among North American velvet ants. <i>Nature Communications</i> , 2012 , 3, 1272	17.4	40
49	Larval Performance in the Context of Ecological Diversification and Speciation in Lycaenid Butterflies. <i>International Journal of Ecology</i> , 2012 , 2012, 1-13	1.9	8
48	Host conservatism, host shifts and diversification across three trophic levels in two Neotropical forests. <i>Journal of Evolutionary Biology</i> , 2012 , 25, 532-46	2.3	38
47	Phylogeography at large spatial scales: incongruent patterns of population structure and demography of Pan-American butterflies associated with weedy habitats. <i>Journal of Biogeography</i> , 2012 , 39, 382-396	4.1	2
46	Drivers of hybridization in a 66-generation record of <i>Colias</i> butterflies. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 818-830	3.8	15
45	Revisiting the evolution of ecological specialization, with emphasis on insect-plant interactions. <i>Ecology</i> , 2012 , 93, 981-91	4.6	188
44	Use of an exotic host plant affects mate choice in an insect herbivore. <i>American Naturalist</i> , 2012 , 179, 805-10	3.7	17
43	A hierarchical bayesian approach to ecological count data: a flexible tool for ecologists. <i>PLoS ONE</i> , 2011 , 6, e26785	3.7	58
42	Phylogenetic Cascades and the Origins of Tropical Diversity. <i>Biotropica</i> , 2011 , 43, 270-278	2.3	20
41	Use of exotic hosts by Lepidoptera: widespread species colonize more novel hosts. <i>Evolution; International Journal of Organic Evolution</i> , 2011 , 65, 2719-24	3.8	61
40	A complete record from colonization to extinction reveals density dependence and the importance of winter conditions for a population of the silvery blue, <i>Glaucopsyche lygdamus</i> . <i>Journal of Insect Science</i> , 2011 , 11, 130	2	9

39	After 60 years, an answer to the question: what is the Karner blue butterfly?. <i>Biology Letters</i> , 2011 , 7, 399-402	3.6	19
38	Ant association facilitates the evolution of diet breadth in a lycaenid butterfly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 1539-47	4.4	37
37	The race is not to the swift: long-term data reveal pervasive declines in California's low-elevation butterfly fauna. <i>Ecology</i> , 2011 , 92, 2222-35	4.6	36
36	Bayesian analysis of molecular variance in pyrosequences quantifies population genetic structure across the genome of Lycaeides butterflies. <i>Molecular Ecology</i> , 2010 , 19, 2455-73	5.7	81
35	Secondary contact between Lycaeides idas and L. melissa in the Rocky Mountains: extensive admixture and a patchy hybrid zone. <i>Molecular Ecology</i> , 2010 , 19, 3171-92	5.7	84
34	Compounded effects of climate change and habitat alteration shift patterns of butterfly diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2088-92	11.5	218
33	Let's give them something to talk about: choosing a discussion paper. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 501-502	5.5	
32	Anthropogenic islands in the arid West: comparing the richness and diversity of insect communities in cultivated fields and neighboring wildlands. <i>Environmental Entomology</i> , 2009 , 38, 1028-37	2.1	6
31	Colonization, abundance, and geographic range size of gravestone lichens. <i>Basic and Applied Ecology</i> , 2009 , 10, 279-287	3.2	11
30	Host range evolution is not driven by the optimization of larval performance: the case of Lycaeides melissa (Lepidoptera: Lycaenidae) and the colonization of alfalfa. <i>Oecologia</i> , 2009 , 160, 551-61	2.9	71
29	An unseen foe in arthropod conservation efforts: The case of Wolbachia infections in the Karner blue butterfly. <i>Biological Conservation</i> , 2009 , 142, 3137-3146	6.2	50
28	Widespread mito-nuclear discordance with evidence for introgressive hybridization and selective sweeps in Lycaeides. <i>Molecular Ecology</i> , 2008 , 17, 5231-44	5.7	115
27	Patterns of Genetic Variation Between the Checkered Skippers Pyrgus communis and Pyrgus albescens (Lepidoptera: Hesperidae). <i>Annals of the Entomological Society of America</i> , 2008 , 101, 794-800 ²		4
26	Considering evolutionary processes in the use of single-locus genetic data for conservation, with examples from the Lepidoptera. <i>Journal of Insect Conservation</i> , 2008 , 12, 37-51	2.1	35
25	Recent colonization and radiation of North American Lycaeides (Plebejus) inferred from mtDNA. <i>Molecular Phylogenetics and Evolution</i> , 2008 , 48, 481-90	4.1	29
24	The genetic architecture of a niche: variation and covariation in host use traits in the Colorado potato beetle. <i>Journal of Evolutionary Biology</i> , 2007 , 20, 985-96	2.3	40
23	Extreme High-altitude Asian and Andean Pierid Butterflies Are Not Each Others' Closest Relatives. <i>Arctic, Antarctic, and Alpine Research</i> , 2007 , 39, 137-142	1.8	1
22	Egg Morphology Varies Among Populations and Habitats Along a Suture Zone in the Lycaeides idas-melissa Species Complex (Lepidoptera: Lycaenidae). <i>Annals of the Entomological Society of America</i> , 2006 , 99, 933-937	2	14

21	Building phenological models from presence/absence data for a butterfly fauna 2006 , 16, 1842-53		16
20	Homoploid hybrid speciation in an extreme habitat. <i>Science</i> , 2006 , 314, 1923-5	33.3	226
19	Identifying units for conservation using molecular systematics: the cautionary tale of the Karner blue butterfly. <i>Molecular Ecology</i> , 2006 , 15, 1759-68	5.7	79
18	Influence of Host Plant Phenology on <i>Mitoura nelsoni</i> (Lepidoptera: Lycaenidae). <i>Annals of the Entomological Society of America</i> , 2005 , 98, 295-301	2	12
17	Lessons in biogeography. <i>Journal of Biogeography</i> , 2005 , 32, 2190-2191	4.1	
16	Increased resistance to generalist herbivores in invasive populations of the California poppy (<i>Eschscholzia californica</i>). <i>Diversity and Distributions</i> , 2005 , 11, 311-317	5	29
15	INDEPENDENT INHERITANCE OF PREFERENCE AND PERFORMANCE IN HYBRIDS BETWEEN HOST RACES OF MITOURA BUTTERFLIES (LEPIDOPTERA: LYCAENIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1149-1155	3.8	46
14	Independent inheritance of preference and performance in hybrids between host races of <i>Mitoura</i> butterflies (Lepidoptera: Lycaenidae). <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1149-55	3.8	15
13	Geological barriers and restricted gene flow in the holarctic skipper <i>Hesperia comma</i> (Hesperiidae). <i>Molecular Ecology</i> , 2004 , 13, 3489-99	5.7	29
12	Seed predation by birds and small mammals in semiarid Chile. <i>Oikos</i> , 2004 , 104, 133-141	4	32
11	Oviposition preference and larval performance within a diverging lineage of lycaenid butterflies. <i>Ecological Entomology</i> , 2004 , 29, 264-272	2.1	66
10	FORAGING ECOLOGY OF SMALL MAMMALS IN SEMIARID CHILE: THE INTERPLAY OF BIOTIC AND ABIOTIC EFFECTS. <i>Ecology</i> , 2004 , 85, 383-397	4.6	37
9	Wing Pattern Variation in the Anise Swallowtail, <i>Papilio zelicaon</i> (Lepidoptera: Papilionidae). <i>Annals of the Entomological Society of America</i> , 2003 , 96, 73-80	2	3
8	Climatic trends and advancing spring flight of butterflies in lowland California. <i>Global Change Biology</i> , 2003 , 9, 1130-1135	11.4	149
7	The ecology of individuals: incidence and implications of individual specialization. <i>American Naturalist</i> , 2003 , 161, 1-28	3.7	1766
6	The significance of wing pattern diversity in the Lycaenidae: mate discrimination by two recently diverged species. <i>Journal of Evolutionary Biology</i> , 2002 , 15, 871-879	2.3	93
5	Size-Specific Differences in Tail Loss and Escape Behavior in <i>Liolaemus nigromaculatus</i> . <i>Journal of Herpetology</i> , 2002 , 36, 322-325	1.1	12
4	Jack-of-all-trades paradigm meets long-term data: generalist herbivores are more widespread and locally less abundant		1

3	A suite of rare microbes interacts with a dominant, heritable, fungal endophyte to influence plant trait expression	1
2	Recent hybrids recapitulate ancient hybrid outcomes	1
1	Insects and recent climate change	3