

Lee A Dyer

List of Publications by Citations

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77
papers

2,187
citations

24
h-index

45
g-index

84
ext. papers

2,850
ext. citations

4.6
avg, IF

5.09
L-index

#	Paper	IF	Citations
77	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
76	ON THE CONDITIONAL NATURE OF NEOTROPICAL CATERPILLAR DEFENSES AGAINST THEIR NATURAL ENEMIES. <i>Ecology</i> , 2002 , 83, 3108-3119	4.6	146
75	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
74	Top-down and bottom-up diversity cascades in detrital vs. living food webs. <i>Ecology Letters</i> , 2002 , 6, 60-68	10	104
73	International scientists formulate a roadmap for insect conservation and recovery. <i>Nature Ecology and Evolution</i> , 2020 , 4, 174-176	12.3	98
72	The insect immune response and other putative defenses as effective predictors of parasitism. <i>Ecology</i> , 2009 , 90, 1434-40	4.6	77
71	Trade-offs in antiherbivore defenses in <i>Piper cenocladum</i> : ant mutualists versus plant secondary metabolites. <i>Journal of Chemical Ecology</i> , 2001 , 27, 581-92	2.7	73
70	Effects of CO2 and temperature on tritrophic interactions. <i>PLoS ONE</i> , 2013 , 8, e62528	3.7	66
69	Tropical forests are not flat: how mountains affect herbivore diversity. <i>Ecology Letters</i> , 2010 , 13, 1348-57	10	58
68	Synergistic effects of amides from two piper species on generalist and specialist herbivores. <i>Journal of Chemical Ecology</i> , 2010 , 36, 1105-13	2.7	58
67	A meta-analysis of the effects of global environmental change on plant-herbivore interactions. <i>Arthropod-Plant Interactions</i> , 2010 , 4, 181-188	2.2	57
66	Diversity of Interactions: A Metric for Studies of Biodiversity. <i>Biotropica</i> , 2010 , 42, 281-289	2.3	54
65	Intraspecific phytochemical variation shapes community and population structure for specialist caterpillars. <i>New Phytologist</i> , 2016 , 212, 208-19	9.8	54
64	Does plant apparency matter? Thirty years of data provide limited support but reveal clear patterns of the effects of plant chemistry on herbivores. <i>New Phytologist</i> , 2016 , 210, 1044-57	9.8	53
63	Phytochemical diversity and synergistic effects on herbivores. <i>Phytochemistry Reviews</i> , 2016 , 15, 1153-1166	11.6	50
62	Modern approaches to study plant-insect interactions in chemical ecology. <i>Nature Reviews Chemistry</i> , 2018 , 2, 50-64	34.6	47
61	Promises and challenges in insect-plant interactions. <i>Entomologia Experimentalis Et Applicata</i> , 2018 , 166, 319-343	2.1	42

60	Herbivores on a dominant understory shrub increase local plant diversity in rain forest communities. <i>Ecology</i> , 2010 , 91, 3707-18	4.6	38
59	Loss of dominant caterpillar genera in a protected tropical forest. <i>Scientific Reports</i> , 2020 , 10, 422	4.9	35
58	A quantitative evaluation of major plant defense hypotheses, nature versus nurture, and chemistry versus ants. <i>Arthropod-Plant Interactions</i> , 2011 , 5, 125-139	2.2	34
57	A window to the world of global insect declines: Moth biodiversity trends are complex and heterogeneous. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	33
56	Geographic variation in host-specificity and parasitoid pressure of an herbivore (geometridae) associated with the tropical genus piper (piperaceae). <i>Journal of Insect Science</i> , 2009 , 9, 28	2	32
55	Overstory-derived surface fuels mediate plant species diversity in frequently burned longleaf pine forests. <i>Ecosphere</i> , 2017 , 8, e01964	3.1	28
54	Canopy Openness Enhances Diversity of Ant-Plant Interactions in the Brazilian Amazon Rain Forest. <i>Biotropica</i> , 2014 , 46, 712-719	2.3	22
53	Restoration of Pasture to Forest in Brazil's Mata Atlântica: The Roles of Herbivory, Seedling Defenses, and Plot Design in Reforestation. <i>Restoration Ecology</i> , 2011 , 19, 257-267	3.1	22
52	Seasonal variation in diet breadth of folivorous Lepidoptera in the Brazilian cerrado. <i>Biotropica</i> , 2016 , 48, 491-498	2.3	22
51	Antiherbivore prenylated benzoic acid derivatives from <i>Piper kelleyi</i> . <i>Journal of Natural Products</i> , 2014 , 77, 148-53	4.9	20
50	Insect Outbreaks in Tropical Forests: Patterns, Mechanisms, and Consequences 2012 , 219-245		18
49	Across Multiple Species, Phytochemical Diversity and Herbivore Diet Breadth Have Cascading Effects on Herbivore Immunity and Parasitism in a Tropical Model System. <i>Frontiers in Plant Science</i> , 2018 , 9, 656	6.2	17
48	Similarity in volatile communities leads to increased herbivory and greater tropical forest diversity. <i>Ecology</i> , 2017 , 98, 1750-1756	4.6	16
47	Weighing Defensive and Nutritive Roles of Ant Mutualists Across a Tropical Altitudinal Gradient. <i>Biotropica</i> , 2011 , 43, 343-350	2.3	16
46	Host plant associated enhancement of immunity and survival in virus infected caterpillars. <i>Journal of Invertebrate Pathology</i> , 2018 , 151, 102-112	2.6	16
45	Understanding why underrepresented students pursue ecology careers: a preliminary case study. <i>Frontiers in Ecology and the Environment</i> , 2007 , 5, 415-420	5.5	15
44	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
43	Dietary specialization and the effects of plant species on potential multitrophic interactions of three species of nymphaline caterpillars. <i>Entomologia Experimentalis Et Applicata</i> , 2014 , 153, 207-216	2.1	13

42	A key to new world distatrix mason (Hymenoptera: Braconidae), with descriptions of six new reared neotropical species. <i>Journal of Insect Science</i> , 2009 , 9, 29	2	13
41	Can Climate Change Trigger Massive Diversity Cascades in Terrestrial Ecosystems?. <i>Diversity</i> , 2013 , 5, 479-504	2.5	12
40	Interaction Diversity Maintains Resiliency in a Frequently Disturbed Ecosystem. <i>Frontiers in Ecology and Evolution</i> , 2019 , 7,	3.7	12
39	Ecology, Natural History, and Larval Descriptions of Arctiinae (Lepidoptera: Noctuoidea: Erebidae) From a Cloud Forest in the Eastern Andes of Ecuador. <i>Annals of the Entomological Society of America</i> , 2011 , 104, 1135-1148	2	11
38	Novel Insights into Tritrophic Interaction Diversity and Chemical Ecology Using 16 Years of Volunteer-Supported Research.. <i>American Entomologist</i> , 2012 , 58, 15-19	0.6	11
37	A bioassay for insect deterrent compounds found in plant and animal tissues. <i>Phytochemical Analysis</i> , 2003 , 14, 381-8	3.4	11
36	Trait-mediated trophic cascade creates enemy-free space for nesting hummingbirds. <i>Science Advances</i> , 2015 , 1, e1500310	14.3	10
35	New synthesis--back to the future: new approaches and directions in chemical studies of coevolution. <i>Journal of Chemical Ecology</i> , 2011 , 37, 669	2.7	10
34	Piper kelleyi, a hotspot of ecological interactions and a new species from Ecuador and Peru. <i>PhytoKeys</i> , 2014 , 19-32	0.9	10
33	Specialised generalists? Food web structure of a tropical tachinid-caterpillar community. <i>Insect Conservation and Diversity</i> , 2017 , 10, 367-384	3.8	9
32	Shedding Light on Chemically Mediated Tri-Trophic Interactions: A H-NMR Network Approach to Identify Compound Structural Features and Associated Biological Activity. <i>Frontiers in Plant Science</i> , 2018 , 9, 1155	6.2	9
31	A quantification of predation rates, indirect positive effects on plants, and foraging variation of the giant tropical ant, <i>Paraponera clavata</i> . <i>Journal of Insect Science</i> , 2002 , 2, 18	2	9
30	A species-level taxonomic review and host associations of (Hymenoptera, Braconidae, Microgastrinae) with an emphasis on 136 new reared species from Costa Rica and Ecuador. <i>ZooKeys</i> , 2019 , 890, 1-685	1.2	9
29	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
28	New dimensions of tropical diversity: an inordinate fondness for insect molecules, taxa, and trophic interactions. <i>Current Opinion in Insect Science</i> , 2014 , 2, 14-19	5.1	8
27	Proximity to canopy mediates changes in the defensive chemistry and herbivore loads of an understory tropical shrub, <i>Piper kelleyi</i> . <i>Ecology Letters</i> , 2019 , 22, 332-341	10	8
26	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
25	An arthropod survival strategy in a frequently burned forest. <i>Ecology</i> , 2017 , 98, 2972-2974	4.6	7

24	Natural History of <i>Eryphanis greeneyi</i> (Lepidoptera: Nymphalidae) and Its Enemies, With a Description of a New Species of Braconid Parasitoid and Notes on Its Tachinid Parasitoid. <i>Annals of the Entomological Society of America</i> , 2011 , 104, 1078-1090	2	7
23	Effects of Banana Plantation Pesticides on the Immune Response of Lepidopteran Larvae and Their Parasitoid Natural Enemies. <i>Insects</i> , 2012 , 3, 616-28	2.8	7
22	Fitness Consequences of Herbivory: Impacts on Asexual Reproduction of Tropical Rain Forest Understory Plants. <i>Biotropica</i> , 2004 , 36, 68-73	2.3	7
21	Changing interactions among persistent species as the major driver of seasonal turnover in plant-caterpillar interactions. <i>PLoS ONE</i> , 2018 , 13, e0203164	3.7	6
20	Maximizing the monitoring of diversity for management activities: Additive partitioning of plant species diversity across a frequently burned ecosystem. <i>Forest Ecology and Management</i> , 2019 , 432, 409-414	3.9	5
19	Simulating Groundcover Community Assembly in a Frequently Burned Ecosystem Using a Simple Neutral Model. <i>Frontiers in Plant Science</i> , 2019 , 10, 1107	6.2	4
18	Simulated tri-trophic networks reveal complex relationships between species diversity and interaction diversity. <i>PLoS ONE</i> , 2018 , 13, e0193822	3.7	4
17	Secondary metabolites in a neotropical shrub: spatiotemporal allocation and role in fruit defense and dispersal. <i>Ecology</i> , 2020 , 101, e03192	4.6	4
16	Multi-trophic interactions and biodiversity: beetles, ants, caterpillars and plants 2005 , 366-385		3
15	Importance of interaction rewiring in determining spatial and temporal turnover of tritrophic (Piper-caterpillar-parasitoid) metanetworks in the Yucatán Peninsula, México. <i>Biotropica</i> , 2021 , 53, 1071-1087	2.3	3
14	First description of the early stage biology of the genus <i>Mygona</i> : the natural history of the satyrine butterfly, <i>Mygona irmina</i> in eastern Ecuador. <i>Journal of Insect Science</i> , 2011 , 11, 5	2	2
13	Testing the applicability of random forest modeling to examine benthic foraminiferal responses to multiple environmental parameters. <i>Marine Environmental Research</i> , 2021 , 172, 105502	3.3	2
12	Structural and compositional dimensions of phytochemical diversity in the genus <i>Piper</i> reflect distinct ecological modes of action. <i>Journal of Ecology</i> ,	6	2
11	Jack-of-all-trades paradigm meets long-term data: generalist herbivores are more widespread and locally less abundant		1
10	Preference and performance of Lepidoptera varies with tree age in juniper woodlands. <i>Ecological Entomology</i> , 2019 , 44, 140-150	2.1	1
9	Chemically Mediated Multi-trophic Interactions 2021 , 17-38		1
8	Macrophyte Diversity and Complexity Reduce Larval Mosquito Abundance. <i>Journal of Medical Entomology</i> , 2020 , 57, 1041-1048	2.2	0
7	Phytochemistry reflects different evolutionary history in traditional classes versus specialized structural motifs. <i>Scientific Reports</i> , 2021 , 11, 17247	4.9	0

6	Tritrophic interaction diversity in gallery forests: A biologically rich and understudied component of the Brazilian cerrado. <i>Arthropod-Plant Interactions</i> , 2021 , 15, 773-785	2.2	○
5	Reconstructing butterfly-pollen interaction networks through periods of anthropogenic drought in the Great Basin (USA) over the past century. <i>Anthropocene</i> , 2022 , 37, 100325	3.9	○
4	Good Things Come in Larger Packages: Size Matters for Adult Fruit-Feeding Butterfly Dispersal and Larval Diet Breadth. <i>Diversity</i> , 2021 , 13, 664	2.5	○
3	The chemical ecology of tropical forest diversity: Environmental variation, chemical similarity, herbivory, and richness.. <i>Ecology</i> , 2022 , e3762	4.6	○
2	Aximopsis gabrielae sp. nov.: a gregarious parasitoid (Hymenoptera: Eurytomidae) of the skipper <i>Quadrus cerialis</i> (Lepidoptera: Hesperiidae) feeding on <i>Piper amalago</i> in southern Mexico. <i>Journal of Natural History</i> , 2022 , 56, 173-189	0.5	
1	Plant-Caterpillar-Parasitoid Natural History Studies Over Decades and Across Large Geographic Gradients Provide Insight Into Specialization, Interaction Diversity, and Global Change. <i>Fascinating Life Sciences</i> , 2022 , 583-606	1.1	