Douglas J Levey

List of Publications by Year
in descending order

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105 papers	11,678 citations	36271 51 h-index	29127 104 g-index
106 all docs	106 docs citations	106 times ranked	11594 citing authors

#	Article	IF	Citations
1	Habitat fragmentation and its lasting impact on Earthâ€™s ecosystems. Science Advances, 2015, 1, e1500052.	4.7	2,541
2	Corridors affect plants, animals, and their interactions in fragmented landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12923-12926.	3.3	449
3	Spatial and Temporal Variation in Costa Rican Fruit and Fruitâ€Eating Bird Abundance. Ecological Monographs, 1988, 58, 251-269.	2.4	363
4	CORRIDOR USE BY DIVERSE TAXA. Ecology, 2003, 84, 609-615.	1.5	324
5	Evolutionary Precursors of Long-Distance Migration: Resource Availability and Movement Patterns in Neotropical Landbirds. American Naturalist, 1992, 140, 447-476.	1.0	320
6	Seed Size and Fruit-Handling Techniques of Avian Frugivores. American Naturalist, 1987, 129, 471-485.	1.0	309
7	Effects of elemental composition on the incorporation of dietary nitrogen and carbon isotopic signatures in an omnivorous songbird. Oecologia, 2003, 135, 516-523.	0.9	306
8	Effects of Landscape Corridors on Seed Dispersal by Birds. Science, 2005, 309, 146-148.	6.0	287
9	Corridors Increase Plant Species Richness at Large Scales. Science, 2006, 313, 1284-1286.	6.0	273
10	Recent advances in understanding migration systems of New World land birds. Ecological Monographs, 2010, 80, 3-48.	2.4	247
11	Tropical Wet Forest Treefall Gaps and Distributions of Understory Birds and Plants. Ecology, 1988, 69, 1076-1089.	1.5	242
12	Arrival and Survival in Tropical Treefall Gaps. Ecology, 1989, 70, 562-564.	1.5	240
13	Natural History's Place in Science and Society. BioScience, 2014, 64, 300-310.	2.2	231
14	Squeezed at the top: Interspecific aggression may constrain elevational ranges in tropical birds. Ecology, 2010, 91, 1877-1884.	1.5	219
15	Complex Ant-Plant Interactions: Rain-Forest Ants as Secondary Dispersers and Post-Dispersal Seed Predators. Ecology, 1993, 74, 1802-1812.	1.5	213
16	Dispersers shape fruit diversity in Ficus (Moraceae). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14668-14672.	3.3	161
17	Evolutionary ecology of pungency in wild chilies. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11808-11811.	3.3	152
18	The movement ecology and dynamics of plant communities in fragmented landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19078-19083.	3.3	150

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19	Landscape connectivity promotes plant biodiversity spillover into non-target habitats. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9328-9332.	3.3	149
20	Experimental evidence does not support the Habitat Amount Hypothesis. Ecography, 2017, 40, 48-55.	2.1	145
21	It Takes Guts (and More) to Eat Fruit: Lessons From Avian Nutritional Ecology. Auk, 2001, 118, 819-831.	0.7	141
22	Digestive System Trade-offs and Adaptations of Frugivorous Passerine Birds. Physiological Zoology, 1990, 63, 1248-1270.	1.5	135
23	Effects of dung and seed size on secondary dispersal, seed predation, and seedling establishment of rain forest trees. Oecologia, 2004, 139, 45-54.	0.9	128
24	How fragmentation and corridors affect wind dynamics and seed dispersal in open habitats. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3484-3489.	3.3	127
25	Fruit Choice in Neotropical Birds: The Effect of Distance Between Fruits on Preference Patterns. Ecology, 1984, 65, 844-850.	1.5	113
26	DO FRUGIVORES RESPOND TO FRUIT HARVEST? AN EXPERIMENTAL STUDY OF SHORT-TERM RESPONSES. Ecology, 2003, 84, 2600-2612.	1.5	113
27	Modelling longâ€distance seed dispersal in heterogeneous landscapes. Journal of Ecology, 2008, 96, 599-608.	1.9	112
28	Seed predation, not seed dispersal, explains the landscape-level abundance of an early-successional plant. Journal of Ecology, 2006, 94, 838-845.	1.9	110
29	Evolutionary Implications of Fruit-Processing Limitations in Cedar Waxwings. American Naturalist, 1991, 138, 171-189.	1.0	101
30	AN EXPERIMENTAL TEST OF WHETHER HABITAT CORRIDORS AFFECT POLLEN TRANSFER. Ecology, 2005, 86, 466-475.	1.5	100
31	Urban mockingbirds quickly learn to identify individual humans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8959-8962.	3.3	98
32	WHY ARE SOME FRUITS TOXIC? GLYCOALKALOIDS INSOLANUMAND FRUIT CHOICE BY VERTEBRATES. Ecology, 1997, 78, 782-798.	1.5	95
33	Loss of animal seed dispersal increases extinction risk in a tropical tree species due to pervasive negative density dependence across life stages. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142095.	1.2	93
34	Ongoing accumulation of plant diversity through habitat connectivity in an 18-year experiment. Science, 2019, 365, 1478-1480.	6.0	92
35	A field test of the directed deterrence hypothesis in two species of wild chili. Oecologia, 2006, 150, 61-68.	0.9	91
36	The role of chromatic and achromatic signals for fruit detection by birds. Behavioral Ecology, 2006, 17, 784-789.	1.0	89

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37	Sugar-Tasting Ability and Fruit Selection in Tropical Fruit-Eating Birds. Auk, 1987, 104, 173-179.	0.7	88
38	SPATIAL ECOLOGY OF PREDATORâ€“PREY INTERACTIONS: CORRIDORS AND PATCH SHAPE INFLUENCE SEED PREDATION. Ecology, 2003, 84, 2589-2599.	1.5	81
39	Determinants of partial bird migration in the Amazon Basin. Journal of Animal Ecology, 2010, 79, 983-992.	1.3	81
40	ANTIFUNGAL ACTIVITY OFSOLANUMFRUIT GLYCOALKALOIDS: IMPLICATIONS FOR FRUGIVORY AND SEED DISPERSAL. Ecology, 1997, 78, 799-809.	1.5	79
41	Title is missing!. Biological Invasions, 2001, 3, 363-372.	1.2	77
42	Spatial and temporal variation in fruit use by wildlife in a forested landscape. Forest Ecology and Management, 2002, 164, 277-291.	1.4	77
43	Potential Negative Ecological Effects of Corridors. Conservation Biology, 2014, 28, 1178-1187.	2.4	76
44	Landscape corridors can increase invasion by an exotic species and reduce diversity of native species. Ecology, 2014, 95, 2033-2039.	1.5	69
45	Habitat-dependent fruiting behaviour of an understorey tree,Miconia centrodesma, and tropical treefall gaps as keystone habitats for frugivores in Costa Rica. Journal of Tropical Ecology, 1990, 6, 409-420.	0.5	67
46	Migration timing and wintering areas of three species of flycatchers (Tyrannus) breeding in the Great Plains of North America. Auk, 2013, 130, 247-257.	0.7	66
47	Test, Rejection, and Reformulation of a Chemical Reactorâ€“Based Model of Gut Function in a Fruitâ€Eating Bird. Physiological and Biochemical Zoology, 1999, 72, 369-383.	0.6	65
48	Where did the Chili Get its Spice? Biogeography of Capsaicinoid Production in Ancestral Wild Chili Species. Journal of Chemical Ecology, 2006, 32, 547-564.	0.9	64
49	How Do Frugivores Process Fruit? Gastrointestinal Transit and Glucose Absorption in Cedar Waxwings (Bombycilla cedrorum). Auk, 1992, 109, 722-730.	0.7	63
50	Gut Passage of Insects by European Starlings and Comparison with Other Species. Auk, 1994, 111, 478-481.	0.7	62
51	COSTS AND BENEFITS OF CAPSAICIN-MEDIATED CONTROL OF GUT RETENTION IN DISPERSERS OF WILD CHILIES. Ecology, 2008, 89, 107-117.	1.5	59
52	When condition trumps location: seed consumption by fruitâ€eating birds removes pathogens and predator attractants. Ecology Letters, 2013, 16, 1031-1036.	3.0	57
53	Prospects for conserving biodiversity in Amazonian extractive reserves. Ecology Letters, 2002, 5, 320-324.	3.0	54
54	The influence of habitat fragmentation on multiple plantâ€“animal interactions and plant reproduction. Ecology, 2015, 96, 2669-2678.	1.5	53

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55	A Glycoalkaloid in Ripe Fruit Deters Consumption by Cedar Waxwings. Auk, 1998, 115, 359-367.	0.7	51
56	Why some fruits are green when they are ripe: carbon balance in fleshy fruits. Oecologia, 1991, 88, 371-377.	0.9	50
57	Conversion of Nitrogen to Protein and Amino Acids in Wild Fruits. Journal of Chemical Ecology, 2000, 26, 1749-1763.	0.9	50
58	Use of dung as a tool by burrowing owls. Nature, 2004, 431, 39-39.	13.7	50
59	Effects of temperature and food on incubation behaviour of the northern mockingbird, Mimus polyglottos. Animal Behaviour, 2008, 76, 669-677.	0.8	49
60	Long-distance bird migration within South America revealed by light-level geolocators. Auk, 2013, 130, 223-229.	0.7	49
61	Contagious seed dispersal beneath heterospecific fruiting trees and its consequences. Oikos, 2004, 107, 303-308.	1.2	48
62	CONTROL OF GUT RETENTION TIME BY SECONDARY METABOLITES IN RIPESOLANUMFRUITS. Ecology, 1998, 79, 2309-2319.	1.5	47
63	Habitat corridors function as both drift fences and movement conduits for dispersing flies. Oecologia, 2005, 143, 645-651.	0.9	46
64	The Evolutionary Ecology of Ethanol Production and Alcoholism. Integrative and Comparative Biology, 2004, 44, 284-289.	0.9	45
65	The importance of long-distance seed dispersal for the demography and distribution of a canopy tree species. Ecology, 2014, 95, 952-962.	1.5	44
66	REFLECTIONS ACROSS HEMISPHERES: A SYSTEM-WIDE APPROACH TO NEW WORLD BIRD MIGRATION. Auk, 2004, 121, 1005.	0.7	42
67	Connectivity from a different perspective: comparing seed dispersal kernels in connected vs. unfragmented landscapes. Ecology, 2016, 97, 1274-1282.	1.5	41
68	Protein Requirements of a Specialized Frugivore, Pesquet's Parrot (Psittrichas fulgidus). Auk, 2001, 118, 1080-1088.	0.7	37
69	Why are not all chilies hot? A trade-off limits pungency. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2012-2017.	1.2	36
70	Evaluating conceptual models of landscape change. Ecography, 2017, 40, 74-84.	2.1	35
71	Cold temperature increases winter fruit removal rate of a bird-dispersed shrub. Oecologia, 2004, 139, 30-34.	0.9	34
72	A SIMPLE METHOD FOR TRACKING VERTEBRATE-DISPERSED SEEDS. Ecology, 2000, 81, 267-274.	1.5	33

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73	Seasonal differences in rainfall, food availability, and the foraging behavior of Tropical Kingbirds in the southern Amazon Basin. Journal of Field Ornithology, 2010, 81, 340-348.	0.3	32
74	Effects of prescribed fire on an ant community in Florida pine savanna. Ecological Entomology, 2003, 28, 439-448.	1.1	30
75	Fruit Production in Mature and Recently Regenerated Forests of the Appalachians. Journal of Wildlife Management, 2007, 71, 321-335.	0.7	30
76	An evaluation of vertebrate seed dispersal syndromes in four species of black nightshade (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	29
77	Butterfly distribution in fragmented landscapes containing agroforestry practices in Southeastern Brazil. Agroforestry Systems, 2013, 87, 1321-1338.	0.9	25
78	Using Historical and Experimental Data to Reveal Warming Effects on Ant Assemblages. PLoS ONE, 2014, 9, e88029.	1.1	24
79	Why We Should Adopt a Broader View of Neotropical Migrants. Auk, 1994, 111, 233-236.	0.7	23
80	Reflections Across Hemispheres: A System-Wide Approach to New World Bird Migration. Auk, 2004, 121, 1005-1013.	0.7	20
81	Habitat patch shape, not corridors, determines herbivory and fruit production of an annual plant. Ecology, 2012, 93, 1016-1025.	1.5	20
82	Patterns of partial avian migration in northern and southern temperate latitudes of the New World. Emu, 2012, 112, 17-22.	0.2	20
83	Achieving Broader Impacts in the National Science Foundation, Division of Environmental Biology. BioScience, 2015, 65, 397-407.	2.2	19
84	Testing the relative importance of local resources and landscape connectivity on Bombus impatiens (Hymenoptera, Apidae) colonies. Apidologie, 2017, 48, 545-555.	0.9	19
85	Mean body size predicts colony performance in the common eastern bumble bee (<scp><i>Bombus) Tj ETQq1 1 0.784314 rgBT /Over	1.1	18
86	Disentangling fragmentation effects on herbivory in understory plants of longleaf pine savanna. Ecology, 2016, 97, 2248-2258.	1.5	17
87	It Takes Guts (And More) to Eat Fruit: Lessons from Avian Nutritional Ecology. Auk, 2001, 118, 819-831.	0.7	15
88	Breeding latitude predicts timing but not rate of spring migration in a widespread migratory bird in South America. Ecology and Evolution, 2019, 9, 5752-5765.	0.8	14
89	Longâ€term patterns of fruit production in five forest types of the South Carolina upper coastal plain. Journal of Wildlife Management, 2012, 76, 1036-1046.	0.7	13
90	The Effects of Silica Fertilizer as an Anti-Herbivore Defense in Cucumber. Journal of Horticultural Research, 2017, 25, 89-98.	0.4	12

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91	Habitat corridors alter relative trophic position of fire ants. Ecosphere, 2012, 3, 1-9.	1.0	11
92	Landscape heterogeneity is key to forecasting outcomes of plant reintroduction. Ecological Applications, 2019, 29, e01850.	1.8	11
93	Testing effects of invasive fire ants and disturbance on ant communities of the longleaf pine ecosystem. Ecological Entomology, 2021, 46, 964-972.	1.1	11
94	Morphological and Genetic Variation Between Migratory and Non-migratory Tropical Kingbirds During Spring Migration in Central South America. Wilson Journal of Ornithology, 2010, 122, 236-243.	0.1	9
95	Gut passage and secondary metabolites alter the source of post-dispersal predation for bird-dispersed chili seeds. Oecologia, 2016, 181, 905-910.	0.9	9
96	Assessing the effects of sodium on fire ant foraging in the field and colony growth in the laboratory. Ecological Entomology, 2014, 39, 267-271.	1.1	8
97	Wintering Yellow-Rumped Warblers (Dendroica Coronata) Track Manipulated Abundance of Myrica Cerifera Fruits. Auk, 2004, 121, 74-87.	0.7	7
98	Protein Requirements of a Specialized Frugivore, Pesquet's Parrot (Psittrichas fulgidus). Auk, 2001, 118, 1080-1088.	0.7	5
99	Broader Impacts from an inside perspective. Frontiers in Ecology and the Environment, 2013, 11, 233-234.	1.9	4
100	Habitat fragmentation alters the distance of abiotic seed dispersal through edge effects and direction of dispersal. Ecology, 2021, 103, e03586.	1.5	4
101	Seasonal and Interspecific Variation in Frugivory by a Mixed Resident-Migrant Overwintering Songbird Community. Diversity, 2021, 13, 314.	0.7	3
102	Fruit Abundance and Local Distribution of Wintering Hermit Thrushes (Catharus Guttatus) and Yellow-Rumped Warblers (Dendroica Coronata) in South Carolina. Auk, 2004, 121, 46-57.	0.7	3
103	Teaching Biodiversity to Students in Inner City & Under-Resourced Schools. American Biology Teacher, 2007, 69, 473-476.	0.1	2
104	Differentiation during fig ontogeny suggests opposing selection by mutualists. Ecology and Evolution, 2020, 10, 718-736.	0.8	2
105	Ecology on the Runway: Engaging the Public in Unexpected Places. Bulletin of the Ecological Society of America, 2017, 98, 103-109.	0.2	1