

# Robert Dudley

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

4,623  
citations

182225

30  
h-index

139680

61  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wing and leg bone microstructure reflects migratory demands in resident and migrant populations of the Dark-eyed Junco ( <i>Junco hyemalis</i> ). <i>Ibis</i> , 2022, 164, 132-150.	1.0	2
2	Non-random distribution of ungulate salt licks relative to distance from North American oceanic margins. <i>Journal of Biogeography</i> , 2022, 49, 254-260.	1.4	2
3	Dietary ethanol ingestion by free-ranging spider monkeys ( <i>Ateles geoffroyi</i> ). <i>Royal Society Open Science</i> , 2022, 9, 211729.	1.1	6
4	Gliding and parachuting by arboreal salamanders. <i>Current Biology</i> , 2022, 32, R453-R454.	1.8	9
5	Coping with captivity: takeoff speed and load-lifting capacity are unaffected by substantial changes in body condition for a passerine bird. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	2
6	A Morphofunctional Hypothesis for Selection on EDAR V370A and Associated Elements of Sinodonty. <i>Dental Anthropology</i> , 2021, 34, 49-54.	0.9	1
7	Flight among the Lilliputians. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	0
8	The role of thrifty genes in the origin of alcoholism: A narrative review and hypothesis. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 1519-1526.	1.4	2
9	Human Evolution and Dietary Ethanol. <i>Nutrients</i> , 2021, 13, 2419.	1.7	14
10	Canopy parkour: movement ecology of post-hatch dispersal in a gliding nymphal stick insect ( <i>Extatosoma tiaratum</i> ). <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	6
11	Natural barriers: waterfall transit by small flying animals. <i>Royal Society Open Science</i> , 2020, 7, 201185.	1.1	1
12	Maximum aerodynamic force production by the wandering glider dragonfly ( <i>Pantala flavescens</i> ). <i>Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 3</i>	0.8	8
13	A Tale of Winglets: Evolution of Flight Morphology in Stick Insects. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	23
14	Superb autorotator: rapid decelerations in impulsively launched samaras. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180456.	1.5	7
15	Avoiding topsy-turvy: how Anna's hummingbirds ( <i>Calypte anna</i> ) fly through upward gusts. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	11
16	Charles Porter Ellington (1952–2019). <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	0
17	Limits to load-lifting performance in a passerine bird: the effects of intraspecific variation in morphological and kinematic parameters. <i>PeerJ</i> , 2019, 7, e8048.	0.9	5
18	Jumping and the aerial behavior of aquatic mayfly larvae ( <i>Myobaetis ellenae</i> , Baetidae). <i>Arthropod Structure and Development</i> , 2018, 47, 370-374.	0.8	3

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19	Ascending flight and decelerating vertical glides in Anna's hummingbirds. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	1
20	Wings and powered flight: Core novelties in insect evolution. <i>Arthropod Structure and Development</i> , 2018, 47, 319-321.	0.8	3
21	Moving like a model: mimicry of hymenopteran flight trajectories by clearwing moths of Southeast Asian rainforests. <i>Biology Letters</i> , 2018, 14, 20180152.	1.0	21
22	On the autorotation of animal wings. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160870.	1.5	4
23	Age-dependent effects of water striders moving on perturbed water surfaces. <i>Journal of Experimental Biology</i> , 2017, 220, 2809-2815.	0.8	6
24	Biomechanics of aerial righting in wingless nymphal stick insects. <i>Interface Focus</i> , 2017, 7, 20160075.	1.5	31
25	The biomechanical origin of extreme wing allometry in hummingbirds. <i>Nature Communications</i> , 2017, 8, 1047.	5.8	22
26	Reframing the science and policy of nicotine, illegal drugs and alcohol – conclusions of the ALICE RAP Project. <i>F1000Research</i> , 2017, 6, 289.	0.8	11
27	Flying high: Limits to flight performance by sparrows on the Qinghai-Tibet Plateau. <i>Journal of Experimental Biology</i> , 2016, 219, 3642-3648.	0.8	28
28	Meniscus ascent by thrips (Thysanoptera). <i>Biology Letters</i> , 2016, 12, 20160279.	1.0	3
29	The visual ecology of directed aerial descent in first-instar nymphs of the stick insect <i>Extatosoma tiaratum</i> . <i>Journal of Experimental Biology</i> , 2015, 218, 2305-14.	0.8	13
30	The descent of ant: field-measured performance of gliding ants. <i>Journal of Experimental Biology</i> , 2015, 218, 1393-401.	0.8	17
31	Interdisciplinary Laboratory Course Facilitating Knowledge Integration, Mutualistic Teaming, and Original Discovery. <i>Integrative and Comparative Biology</i> , 2015, 55, 912-925.	0.9	22
32	Arachnid aloft: directed aerial descent in neotropical canopy spiders. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150534.	1.5	27
33	Electrostatic Charge on Flying Hummingbirds and Its Potential Role in Pollination. <i>PLoS ONE</i> , 2015, 10, e0138003.	1.1	14
34	Into turbulent air: size-dependent effects of von Kármán vortex streets on hummingbird flight kinematics and energetics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140180.	1.2	49
35	Hovering performance of Anna's hummingbirds ( <i>Calypte anna</i> ) in ground effect. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140505.	1.5	25
36	An integrative approach to understanding bird origins. <i>Science</i> , 2014, 346, 1253293.	6.0	240

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37	Molecular Phylogenetics and the Diversification of Hummingbirds. <i>Current Biology</i> , 2014, 24, 910-916.	1.8	341
38	El Niño, Host Plant Growth, and Migratory Butterfly Abundance in a Changing Climate. <i>Biotropica</i> , 2014, 46, 90-97.	0.8	29
39	Ontogeny of aerial righting and wing flapping in juvenile birds. <i>Biology Letters</i> , 2014, 10, 20140497.	1.0	30
40	Shifts in stability and control effectiveness during evolution of Paraves support aerial maneuvering hypotheses for flight origins. <i>PeerJ</i> , 2014, 2, e632.	0.9	20
41	Implications of floral orientation for flight kinematics and metabolic expenditure of hovering feeding hummingbirds. <i>Functional Ecology</i> , 2013, 27, 227-235.	1.7	10
42	Lust for Salt in the Western Amazon. <i>Biotropica</i> , 2012, 44, 6-9.	0.8	57
43	Evolution and Ecology of Directed Aerial Descent in Arboreal Ants. <i>Integrative and Comparative Biology</i> , 2011, 51, 944-956.	0.9	35
44	Comparative Energetics of the Giant Hummingbird ( <i>Patagona gigas</i> ). <i>Physiological and Biochemical Zoology</i> , 2011, 84, 333-340.	0.6	19
45	Projected changes in elevational distribution and flight performance of montane Neotropical hummingbirds in response to climate change. <i>Global Change Biology</i> , 2011, 17, 1671-1680.	4.2	28
46	Animal Aloft: The Origins of Aerial Behavior and Flight. <i>Integrative and Comparative Biology</i> , 2011, 51, 926-936.	0.9	72
47	Aerial Righting Reflexes in Flightless Animals. <i>Integrative and Comparative Biology</i> , 2011, 51, 937-943.	0.9	72
48	El Niño and dry season rainfall influence hostplant phenology and an annual butterfly migration from Neotropical wet to dry forests. <i>Global Change Biology</i> , 2010, 16, 936-945.	4.2	52
49	Aerial manoeuvrability in wingless gliding ants ( <i>Cephalotes atratus</i> ). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2199-2204.	1.2	40
50	Gliding hexapods and the origins of insect aerial behaviour. <i>Biology Letters</i> , 2009, 5, 510-512.	1.0	55
51	Turbulence-driven instabilities limit insect flight performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9105-9108.	3.3	118
52	Sodium shortage as a constraint on the carbon cycle in an inland tropical rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19405-19409.	3.3	144
53	The influence of ethanol on feeding in the frugivorous yellow-vented bulbul ( <i>Pycnonotus</i> ). <i>Journal of Animal Ecology</i> , 2009, 78, 107-117.	0.5	17
54	On the biogeography of salt limitation: A study of ant communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17848-17851.	3.3	114

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55	Gliding and the Functional Origins of Flight: Biomechanical Novelty or Necessity. Annual Review of Ecology, Evolution, and Systematics, 2007, 38, 179-201.	3.8	151
56	Ethanol and Methanol as Possible Odor Cues for Egyptian Fruit Bats ( <i>Rousettus aegyptiacus</i> ). Journal of Chemical Ecology, 2006, 32, 1289-1300.	0.9	54
57	Living History of Physiology: Carl Gans. American Journal of Physiology - Advances in Physiology Education, 2006, 30, 102-107.	0.8	3
58	Directed aerial descent in canopy ants. Nature, 2005, 433, 624-626.	13.7	123
59	Wing Morphology and Flight Behavior of Some North American Hummingbird Species. Auk, 2005, 122, 872-886.	0.7	30
60	The Cost of Living Large: Comparative Gliding Performance in Flying Lizards (Agamidae: Draco). American Naturalist, 2005, 166, 93-106.	1.0	106
61	WING MORPHOLOGY AND FLIGHT BEHAVIOR OF SOME NORTH AMERICAN HUMMINGBIRD SPECIES. Auk, 2005, 122, 872.	0.7	30
62	Ethanol, Fruit Ripening, and the Historical Origins of Human Alcoholism in Primate Frugivory. Integrative and Comparative Biology, 2004, 44, 315-323.	0.9	140
63	Resolution of a paradox: Hummingbird flight at high elevation does not come without a cost. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17731-17736.	3.3	141
64	The Comparative Biology of Ethanol Consumption: An Introduction to the Symposium. Integrative and Comparative Biology, 2004, 44, 267-268.	0.9	2
65	Aerodynamic forces of revolving hummingbird wings and wing models. Journal of Zoology, 2004, 264, 327-332.	0.8	96
66	Transition from ciliary to flapping mode in a swimming mollusc: flapping flight as a bifurcation in $\Re_{\omega}$ . Journal of Fluid Mechanics, 2004, 498, 257-288.	1.4	85
67	Kinematics of hovering hummingbird flight along simulated and natural elevational gradients. Journal of Experimental Biology, 2003, 206, 3139-3147.	0.8	97
68	Mechanisms and Implications of Animal Flight Maneuverability. Integrative and Comparative Biology, 2002, 42, 135-140.	0.9	127
69	Fermenting fruit and the historical ecology of ethanol ingestion: is alcoholism in modern humans an evolutionary hangover?. Addiction, 2002, 97, 381-388.	1.7	123
70	Hovering flight mechanics of neotropical flower bats (Phyllostomidae:Glossophaginae) in normodense and hypodense gas mixtures. Journal of Experimental Biology, 2002, 205, 3669-3677.	0.8	16
71	The ecological and evolutionary interface of hummingbird flight physiology. Journal of Experimental Biology, 2002, 205, 2325-36.	0.8	65
72	Hovering flight mechanics of neotropical flower bats (Phyllostomidae: Glossophaginae) in normodense and hypodense gas mixtures. Journal of Experimental Biology, 2002, 205, 3669-77.	0.8	11

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73	Evolutionary Origins of Human Alcoholism in Primate Frugivory. Quarterly Review of Biology, 2000, 75, 3-15.	0.0	135
74	Why are there so few evolutionary transitions between aquatic and terrestrial ecosystems?. Biological Journal of the Linnean Society, 2000, 70, 541-554.	0.7	14
75	Late paleozoic atmospheres and biotic evolution. Historical Biology, 1999, 13, 199-219.	0.7	17
76	Maximum Flight Performance of Hummingbirds: Capacities, Constraints, and Trade-offs. American Naturalist, 1999, 153, 398-411.	1.0	63
77	Elastic structures in the vocalization apparatus of the Tãngara Frog <i>Physalaemus pustulosus</i> (Leptodactylidae). , 1997, 233, 287-295.		15
78	Implications of the late Palaeozoic oxygen pulse for physiology and evolution. Nature, 1995, 375, 117-120.	13.7	309
79	Limits to vertebrate locomotor energetics suggested by hummingbirds hovering in heliox. Nature, 1995, 377, 722-725.	13.7	135
80	SHORT COMMUNICATION UNDERWATER SOUND PRODUCTION IN A NEOTROPICAL ANURAN, <i>PHYSALAEMUS PUSTULOSUS</i> (LEPTODACTYLIDAE). Bioacoustics, 1992, 4, 211-216.	0.7	3