List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3048630/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Molecular Phylogenetics and the Diversification of Hummingbirds. Current Biology, 2014, 24, 910-916.	1.8	341
2	Phylogenetic Systematics and Biogeography of Hummingbirds: Bayesian and Maximum Likelihood Analyses of Partitioned Data and Selection of an Appropriate Partitioning Strategy. Systematic Biology, 2007, 56, 837-856.	2.7	241
3	Short-amplitude high-frequency wing strokes determine the aerodynamics of honeybee flight. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18213-18218.	3.3	198
4	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
5	The ecological and evolutionary interface of hummingbird flight physiology. Journal of Experimental Biology, 2002, 205, 2325-2336.	0.8	107
6	Kinematics of hovering hummingbird flight along simulated and natural elevational gradients. Journal of Experimental Biology, 2003, 206, 3139-3147.	0.8	97
7	Aerodynamic forces of revolving hummingbird wings and wing models. Journal of Zoology, 2004, 264, 327-332.	0.8	96
8	The physiology and biomechanics of avian flight at high altitude. Integrative and Comparative Biology, 2006, 46, 62-71.	0.9	95
9	Power reduction and the radial limit of stall delay in revolving wings of different aspect ratio. Journal of the Royal Society Interface, 2015, 12, 20150051.	1.5	91
10	Hummingbird wing efficacy depends on aspect ratio and compares with helicopter rotors. Journal of the Royal Society Interface, 2014, 11, 20140585.	1.5	87
11	The biophysics of bird flight: functional relationships integrate aerodynamics, morphology, kinematics, muscles, and sensors. Canadian Journal of Zoology, 2015, 93, 961-975.	0.4	78
12	A higher-level taxonomy for hummingbirds. Journal of Ornithology, 2009, 150, 155-165.	0.5	67
13	Novel interactions of non-pollinating ants with pollinators and fruit consumers in a tropical forest. Oecologia, 1999, 119, 600-606.	0.9	66
14	Take-off mechanics in hummingbirds (Trochilidae). Journal of Experimental Biology, 2004, 207, 1345-1352.	0.8	66
15	Flight Performance and Competitive Displacement of Hummingbirds across Elevational Gradients. American Naturalist, 2006, 167, 216-229.	1.0	65
16	The ecological and evolutionary interface of hummingbird flight physiology. Journal of Experimental Biology, 2002, 205, 2325-36.	0.8	65
17	Wake patterns of the wings and tail of hovering hummingbirds. Experiments in Fluids, 2009, 46, 835-846.	1.1	58
18	Fiber type homogeneity of the flight musculature in small birds. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2009, 152, 324-331.	0.7	58

#	Article	IF	CITATIONS
19	Allometry of hummingbird lifting performance. Journal of Experimental Biology, 2010, 213, 725-734.	0.8	58
20	Morphology, muscle capacity, skill, and maneuvering ability in hummingbirds. Science, 2018, 359, 653-657.	6.0	56
21	Wingbeat kinematics and motor control of yaw turns in Anna's hummingbirds (<i>Calypte anna</i>). Journal of Experimental Biology, 2012, 215, 4070-84.	0.8	54
22	Oxygen consumption rates in hovering hummingbirds reflect substrate-dependent differences in P/O ratios: carbohydrate as a `premium fuel'. Journal of Experimental Biology, 2007, 210, 2146-2153.	0.8	53
23	Flower Color, Hummingbird Pollination, and Habitat Irradiance in Four Neotropical Forests1. Biotropica, 2003, 35, 344-355.	0.8	50
24	Of Hummingbirds and Helicopters: Hovering Costs, Competitive Ability, and Foraging Strategies. American Naturalist, 2004, 163, 16-25.	1.0	42
25	Hummingbirds control hovering flight by stabilizing visual motion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18375-18380.	3.3	42
26	Wing morphing allows gulls to modulate static pitch stability during gliding. Journal of the Royal Society Interface, 2019, 16, 20180641.	1.5	39
27	Visual guidance of forward flight in hummingbirds reveals control based on image features instead of pattern velocity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8849-8854.	3.3	38
28	Comparison of Visually Guided Flight in Insects and Birds. Frontiers in Neuroscience, 2018, 12, 157.	1.4	35
29	An Algorithmic Approach to Natural Behavior. Current Biology, 2020, 30, R663-R675.	1.8	35
30	Range of motion in the avian wing is strongly associated with flight behavior and body mass. Science Advances, 2019, 5, eaaw6670.	4.7	34
31	Visual-Cerebellar Pathways and Their Roles in the Control of Avian Flight. Frontiers in Neuroscience, 2018, 12, 223.	1.4	32
32	Birds can transition between stable and unstable states via wing morphing. Nature, 2022, 603, 648-653.	13.7	32
33	Maximal Horizontal Flight Performance of Hummingbirds: Effects of Body Mass and Molt. Physiological and Biochemical Zoology, 1999, 72, 145-155.	0.6	31
34	Hovering Flight in the Honeybee <i>Apis mellifera</i> : Kinematic Mechanisms for Varying Aerodynamic Forces. Physiological and Biochemical Zoology, 2014, 87, 870-881.	0.6	31
35	Wing Morphology and Flight Behavior of Some North American Hummingbird Species. Auk, 2005, 122, 872-886.	0.7	30
36	WING MORPHOLOGY AND FLIGHT BEHAVIOR OF SOME NORTH AMERICAN HUMMINGBIRD SPECIES. Auk, 2005, 122, 872.	0.7	30

#	Article	IF	CITATIONS
37	Burst muscle performance predicts the speed, acceleration, and turning performance of Anna's hummingbirds. ELife, 2015, 4, e11159.	2.8	29
38	Neuromuscular control of wingbeat kinematics in Anna's hummingbirds (<i>Calypte anna</i>). Journal of Experimental Biology, 2010, 213, 2507-2514.	0.8	28
39	Projected changes in elevational distribution and flight performance of montane Neotropical hummingbirds in response to climate change. Global Change Biology, 2011, 17, 1671-1680.	4.2	28
40	Hummingbirds generate bilateral vortex loops during hovering: evidence from flow visualization. Experiments in Fluids, 2013, 54, 1.	1.1	26
41	Neurons Responsive to Global Visual Motion Have Unique Tuning Properties in Hummingbirds. Current Biology, 2017, 27, 279-285.	1.8	24
42	Muscle Activation Patterns and Motor Anatomy of Anna's Hummingbirds <i>Calypte anna</i> and Zebra Finches <i>Taeniopygia guttata</i> . Physiological and Biochemical Zoology, 2013, 86, 27-46.	0.6	22
43	The biomechanical origin of extreme wing allometry in hummingbirds. Nature Communications, 2017, 8, 1047.	5.8	22
44	Very low force-generating ability and unusually high temperature-dependency in hummingbird flight muscle fibers. Journal of Experimental Biology, 2013, 216, 2247-56.	0.8	20
45	Hummingbirds control turning velocity using body orientation and turning radius using asymmetrical wingbeat kinematics. Journal of the Royal Society Interface, 2016, 13, 20160110.	1.5	18
46	ECOLOGY AND EVOLUTION: Enhanced: Darwin's Hummingbirds. Science, 2003, 300, 588-589.	6.0	17
47	Observational Learning in Hummingbirds. Auk, 2001, 118, 795-799.	0.7	16
48	CONFLICTING TERMINOLOGY FOR WING MEASUREMENTS IN ORNITHOLOGY AND AERODYNAMICS. Auk, 2004, 121, 973.	0.7	13
49	Adaptations to life at high elevation: An introduction to the symposium. Integrative and Comparative Biology, 2006, 46, 3-4.	0.9	12
50	Mechanical Constraints on Flight at High Elevation Decrease Maneuvering Performance of Hummingbirds. Current Biology, 2016, 26, 3368-3374.	1.8	12
51	Flight muscle power increases with strain amplitude and decreases with cycle frequency in zebra finches (<i>Taeniopygia guttata</i>). Journal of Experimental Biology, 2020, 223, .	0.8	11
52	Visual Sensory Signals Dominate Tactile Cues during Docked Feeding in Hummingbirds. Frontiers in Neuroscience, 2017, 11, 622.	1.4	9
53	Spatial and Temporal Resolution of the Visual System of the Anna's Hummingbird (<i>Calypte anna</i>) Relative to Other Birds. Physiological and Biochemical Zoology, 2019, 92, 481-495.	0.6	9
54	Pretectal projections to the oculomotor cerebellum in hummingbirds (<i>Calypte anna</i>), zebra finches (<i>Taeniopygia guttata</i>), and pigeons (<i>Columba livia</i>). Journal of Comparative Neurology, 2019, 527, 2644-2658.	0.9	9

#	Article	IF	CITATIONS
55	Response properties of optic flow neurons in the accessory optic system of hummingbirds versus zebra finches and pigeons. Journal of Neurophysiology, 2022, 127, 130-144.	0.9	9
56	The Orientation of Visual Space from the Perspective of Hummingbirds. Frontiers in Neuroscience, 2018, 12, 16.	1.4	8
57	Trigeminal and Spinal Dorsal Horn (Dis)continuity and Avian Evolution. Brain, Behavior and Evolution, 2010, 76, 11-19.	0.9	7
58	Molecular Phylogenetics and the Diversification of Hummingbirds. Current Biology, 2014, 24, 1038.	1.8	7
59	Specializations in optic flow encoding in the pretectum of hummingbirds and zebra finches. Current Biology, 2022, 32, 2772-2779.e4.	1.8	7
60	The retinal projection to the nucleus lentiformis mesencephali in zebra finch (Taeniopygia guttata) and Anna's hummingbird (Calypte anna). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 369-376.	0.7	6
61	Hovering Performance of Hummingbirds in Hyperoxic Gas Mixtures. Journal of Experimental Biology, 2001, 204, 2021-2027.	0.8	6
62	Individual variation and the biomechanics of maneuvering flight in hummingbirds. Journal of Experimental Biology, 2020, 223, .	0.8	5
63	Hydration history and attachment morphology regulate seed release in Chorizanthe rigida (Polygonaceae), a serotinous desert annual. American Journal of Botany, 2014, 101, 1079-1084.	0.8	4
64	Work loop dynamics of the pigeon (Columba livia) humerotriceps demonstrate potentially diverse roles for active wing morphing. Journal of Experimental Biology, 2019, 222, .	0.8	4
65	Hovering performance of hummingbirds in hyperoxic gas mixtures. Journal of Experimental Biology, 2001, 204, 2021-7.	0.8	4
66	Pitch Control Effectiveness of the Avian Elbow and Wrist via a Numerical Lifting Line Analysis. , 2019, , \cdot		2
67	Hummingbird vision. Current Biology, 2020, 30, R103-R105.	1.8	2
68	Phase transformation-driven artificial muscle mimics the multifunctionality of avian wing muscle. Journal of the Royal Society Interface, 2021, 18, 20201042.	1.5	2
69	Observational Learning in Hummingbirds. Auk, 2001, 118, 795-799.	0.7	1
70	Generation of muscle power during hovering flight in hummingbirds: A comparison of aerodynamic models with measurements of metabolic input and mechanical power output. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, S64.	0.8	0
71	Conflicting Terminology for Wing Measurements in Ornithology and Aerodynamics. Auk, 2004, 121, 973-976.	0.7	0