Henry C Astley

List of Publications by Year in descending order

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623734 552781 1,039 29 14 26 citations g-index h-index papers 31 31 31 898 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	Slithering across worlds—snake-inspired robots for extraterrestrial exploration. , 2022, , 261-289.		1
2	Snakes combine vertical and lateral bending to traverse uneven terrain. Bioinspiration and Biomimetics, 2022, 17, 036009.	2.9	5
3	Defibrillate You Later, Alligator: Q10 Scaling and Refractoriness Keeps Alligators from Fibrillation. Integrative Organismal Biology, 2021, 3, obaa047.	1.8	5
4	Comparing the turn performance of different motor control schemes in multilink fish-inspired robots. Bioinspiration and Biomimetics, 2021, 16, 036010.	2.9	3
5	Generation of propulsive force via vertical undulations in snakes. Journal of Experimental Biology, 2021, 224, .	1.7	9
6	Testing the effects of body depth on fish maneuverability via robophysical models. Bioinspiration and Biomimetics, 2021, 17, .	2.9	3
7	Long Limbless Locomotors Over Land: The Mechanics and Biology of Elongate, Limbless Vertebrate Locomotion. Integrative and Comparative Biology, 2020, 60, 134-139.	2.0	8
8	The control of routine fish maneuvers: Connecting midline kinematics to turn outcomes. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 579-594.	1.9	4
9	Experimental modification of morphology reveals the effects of the zygosphene-zygantrum joint on the range of motion of snake vertebrae. Journal of Experimental Biology, 2020, 223, .	1.7	15
10	Surprising simplicities and syntheses in limbless self-propulsion in sand. Journal of Experimental Biology, 2020, 223, .	1.7	29
11	The Biomechanics of Multi-articular Muscle–Tendon Systems in Snakes. Integrative and Comparative Biology, 2020, 60, 140-155.	2.0	12
12	Side-impact collision: mechanics of obstacle negotiation in sidewinding snakes. Bioinspiration and Biomimetics, 2020, 15, 065005.	2.9	12
13	Mitigating memory effects during undulatory locomotion on hysteretic materials. ELife, 2020, 9, .	6.0	23
14	Comparative and functional analysis of the digital mucus glands and secretions of tree frogs. Frontiers in Zoology, 2019, 16, 19.	2.0	15
15	Traversing Tight Tunnels—Implementing an Adaptive Concertina Gait in a Biomimetic Snake Robot. , 2018, , .		4
16	Morphological and kinematic specializations of walking frogs. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2018, 329, 87-98.	1.9	16
17	Tail use improves performance on soft substrates in models of early vertebrate land locomotors. Science, 2016, 353, 154-158.	12.6	78
18	The diversity and evolution of locomotor muscle properties in anurans. Journal of Experimental Biology, 2016, 219, 3163-3173.	1.7	32

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19	Fluoromicrometry: A Method for Measuring Muscle Length Dynamics with Biplanar Videofluoroscopy. Journal of Experimental Zoology, 2016, 325, 399-408.	1.2	37
20	Kinematic gait synthesis for snake robots. International Journal of Robotics Research, 2016, 35, 100-113.	8.5	45
21	Robot-inspired biology: The compound-wave control template. , 2015, , .		7
22	Robust jumping performance and elastic energy recovery from compliant perches in tree frogs. Journal of Experimental Biology, 2015, 218, 3360-3363.	1.7	32
23	Modulation of orthogonal body waves enables high maneuverability in sidewinding locomotion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6200-6205.	7.1	78
24	The mechanics of elastic loading and recoil in anuran jumping. Journal of Experimental Biology, 2014, 217, 4372-4378.	1.7	82
25	Sidewinding with minimal slip: Snake and robot ascent of sandy slopes. Science, 2014, 346, 224-229.	12.6	209
26	Getting around when you're round: quantitative analysis of the locomotion of the blunt-spined brittle star, <i>Ophiocoma echinata</i> . Journal of Experimental Biology, 2012, 215, 1923-1929.	1.7	51
27	Evidence for a vertebrate catapult: elastic energy storage in the plantaris tendon during frog jumping. Biology Letters, 2012, 8, 386-389.	2.3	131
28	Arboreal habitat structure affects the performance and modes of locomotion of corn snakes (<i>Elaphe guttata</i>). Journal of Experimental Zoology, 2009, 311A, 207-216.	1.2	30
29	Effects of perch diameter and incline on the kinematics, performance and modes of arboreal locomotion of corn snakes (<i>Elaphe guttata</i>). Journal of Experimental Biology, 2007, 210, 3862-3872.	1.7	61