Laurens E Howle

List of Publications by Year
in descending order

41	1,294	394421	345221
papers	citations	19 h-index	36 g-index

41	41	41	932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental Evaluation of Sinusoidal Leading Edges. Journal of Aircraft, 2007, 44, 1404-1408.	2.4	211
2	The Tubercles on Humpback Whales' Flippers: Application of Bio-Inspired Technology. Integrative and Comparative Biology, 2011, 51, 203-213.	2.0	204
3	Hydrodynamic flow control in marine mammals. Integrative and Comparative Biology, 2008, 48, 788-800.	2.0	164
4	Computational Evaluation of the Performance of Lifting Surfaces with Leading-Edge Protuberances. Journal of Aircraft, 2011, 48, 591-600.	2.4	102
5	Marine Applications of the Biomimetic Humpback Whale Flipper. Marine Technology Society Journal, 2011, 45, 198-207.	0.4	53
6	Active control of Rayleighâ€“BÃ©nard convection. Physics of Fluids, 1997, 9, 1861-1863.	4.0	52
7	Lift and drag performance of odontocete cetacean flippers. Journal of Experimental Biology, 2009, 212, 2149-2158.	1.7	40
8	Control of Rayleigh-BÃ©nard convection in a small aspect ratio container. International Journal of Heat and Mass Transfer, 1997, 40, 817-822.	4.8	39
9	Visualization of convective fluid flow in a porous medium. Nature, 1993, 362, 230-232.	27.8	36
10	Advances in cetacean telemetry: A review of singleâ€pin transmitter attachment techniques on small cetaceans and development of a new satelliteâ€linked transmitter design. Marine Mammal Science, 2014, 30, 656-673.	1.8	36
11	Linear stability analysis of controlled Rayleigh-BÃ©nard convection using shadowgraphic measurement. Physics of Fluids, 1997, 9, 3111-3113.	4.0	31
12	Drag of suction cup tags on swimming animals: Modeling and measurement. Marine Mammal Science, 2014, 30, 726-746.	1.8	27
13	The effect of boundary properties on controlled Rayleighâ€“BÃ©nard convection. Journal of Fluid Mechanics, 2000, 411, 39-58.	3.4	25
14	Effect of varying injection rates of a saline chaser on aortic enhancement in CT angiography: phantom study. European Radiology, 2008, 18, 1683-1689.	4.5	25
15	Hydrodynamic performance of the flippers of largeâ€bodied cetaceans in relation to locomotor ecology. Marine Mammal Science, 2014, 30, 413-432.	1.8	24
16	Modifying Peripheral IV Catheters With Side Holes and Side Slits Results in Favorable Changes in Fluid Dynamic Properties During the Injection of Iodinated Contrast Material. American Journal of Roentgenology, 2009, 193, 970-977.	2.2	23
17	Central Venous Catheter Integrity during Mechanical Power Injection of Iodinated Contrast Medium. Radiology, 2009, 253, 870-878.	7.3	23
18	Resolution and Severity in Decompression Illness. Aviation, Space, and Environmental Medicine, 2009, 80, 466-471.	0.5	22

#	Article	IF	Citations
19	Evaluation of synthetic phospholipid ultrasound contrast agents. Ultrasonics, 2002, 40, 973-982.	3.9	19
20	From the track to the ocean: Using flow control to improve marine bio-logging tags for cetaceans. PLoS ONE, 2017, 12, e0170962.	2.5	19
21	The probability and severity of decompression sickness. PLoS ONE, 2017, 12, e0172665.	2.5	18
22	Contrast Material Administration Protocols for 64-MDCT Angiography: Altering Volume and Rate and Use of a Saline Chaser to Better Match the Imaging Windowâ€”Physiologic Phantom Study. American Journal of Roentgenology, 2009, 193, 1568-1575.	2.2	15
23	Marginal DCS events: their relation to decompression and use in DCS models. Journal of Applied Physiology, 2009, 107, 1539-1547.	2.5	13
24	A computationally advantageous system for fitting probabilistic decompression models to empirical data. Computers in Biology and Medicine, 2009, 39, 1117-1129.	7.0	9
25	Simulation of the entanglement of a North Atlantic right whale (Eubalaena glacialis) with fixed fishing gear. Marine Mammal Science, 2019, 35, 760-778.	1.8	9
26	Contrast-Enhanced Magnetic Resonance Angiography. Investigative Radiology, 2012, 47, 121-127.	6.2	8
27	Analytic gain in probabilistic decompression sickness models. Computers in Biology and Medicine, 2013, 43, 1739-1747.	7.0	8
28	Bayesian approach to decompression sickness model parameter estimation. Computers in Biology and Medicine, 2017, 82, 3-11.	7.0	8
29	Effects of anisotropy and boundary plates on the critical values of a porous medium heated from below. International Journal of Heat and Mass Transfer, 1999, 42, 3419-3430.	4.8	7
30	Probabilistic pharmacokinetic models of decompression sickness in humans, part 1: Coupled perfusion-limited compartments. Computers in Biology and Medicine, 2017, 86, 55-64.	7.0	5
31	Improved aortic enhancement in CT angiography using slope-based triggering with table speed optimization: a pilot study. International Journal of Cardiovascular Imaging, 2012, 28, 1533-1543.	1.5	4
32	Bimodal decompression sickness onset times are not related to dive type or event severity. Computers in Biology and Medicine, 2017, 91, 59-68.	7.0	4
33	A Simplified Mass-Transfer Model for Visual Pigments in Amphibian Retinal-Cone Outer Segments. Biophysical Journal, 2011, 100, 525-534.	0.5	3
34	Iso-risk air no decompression limits after scoring marginal decompression sickness cases as non-events. Computers in Biology and Medicine, 2018, 92, 110-117.	7.0	2
35	Probabilistic pharmacokinetic models of decompression sickness in humans: Part 2, coupled perfusion-diffusion models. Computers in Biology and Medicine, 2018, 92, 90-97.	7.0	2
36	Computational fluid dynamics of flow regime and hydrodynamic forces generated by a gliding North Atlantic right whale (Eubalaena glacialis). Marine Mammal Science, 2021, 37, 826.	1.8	2

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37	Trinomial decompression sickness model using full, marginal, and non-event outcomes. Computers in Biology and Medicine, 2020, 118, 103640.	7.0	2
38	Tetranomial decompression sickness model using serious, mild, marginal, and non-event outcomes. Informatics in Medicine Unlocked, 2020, 20, 100371.	3.4	0
39	Are interconnected compartmental models more effective at predicting decompression sickness risk?. Informatics in Medicine Unlocked, 2020, 20, 100334.	3.4	0
40	Hemodialysis catheter integrity during mechanical power injection of iodinated contrast medium for computed tomography angiography. Abdominal Radiology, 2021, 46, 2961-2967.	2.1	0
41	A study of decompression sickness using recorded depth-time profiles. Undersea and Hyperbaric Medicine, 2020, 47, 75-91.	0.3	0