Jean Potvin

List of Publications by Year
in descending order

17 papers	578 citations	759233 12 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	527 citing authors

#	Article	IF	Citations
1	Scaling of lungeâ€feeding performance in rorqual whales: massâ€specific energy expenditure increases with body size and progressively limits diving capacity. Functional Ecology, 2012, 26, 216-226.	3.6	113
2	Metabolic Expenditures of Lunge Feeding Rorquals Across Scale: Implications for the Evolution of Filter Feeding and the Limits to Maximum Body Size. PLoS ONE, 2012, 7, e44854.	2.5	74
3	Baleen Hydrodynamics and Morphology of Cross-Flow Filtration in Balaenid Whale Suspension Feeding. PLoS ONE, 2016, 11, e0150106.	2.5	60
4	Scaling of swimming performance in baleen whales. Journal of Experimental Biology, 2019, 222, .	1.7	45
5	Hydrodynamic properties of fin whale flippers predict maximum rolling performance. Journal of Experimental Biology, 2016, 219, 3315-3320.	1.7	44
6	Predator-informed looming stimulus experiments reveal how large filter feeding whales capture highly maneuverable forage fish. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 472-478.	7.1	42
7	Physical trade-offs shape the evolution of buoyancy control in sharks. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171345.	2.6	30
8	Filtration area scaling and evolution in mysticetes: trophic niche partitioning and the curious cases of sei and pygmy right whales. Biological Journal of the Linnean Society, 2018, 125, 264-279.	1.6	30
9	Oral cavity hydrodynamics and drag production in Balaenid whale suspension feeding. PLoS ONE, 2017, 12, e0175220.	2.5	24
10	Averaged Propulsive Body Acceleration (APBA) Can Be Calculated from Biologging Tags That Incorporate Gyroscopes and Accelerometers to Estimate Swimming Speed, Hydrodynamic Drag and Energy Expenditure for Steller Sea Lions. PLoS ONE, 2016, 11, e0157326.	2.5	21
11	Mechanical challenges to freshwater residency in sharks and rays. Journal of Experimental Biology, 2015, 218, 1099-1110.	1.7	20
12	Energetic and physical limitations on the breaching performance of large whales. ELife, 2020, 9, .	6.0	17
13	Lunge Feeding in Rorqual Whales. Physiology, 2019, 34, 409-418.	3.1	13
14	A perfectly inelastic collision: Bulk prey engulfment by baleen whales and dynamical implications for the world's largest cetaceans. American Journal of Physics, 2020, 88, 851-863.	0.7	12
15	Scaling of oscillatory kinematics and Froude efficiency in baleen whales. Journal of Experimental Biology, 2021, 224, .	1.7	12
16	Using morphology to infer physiology: case studies on rorqual whales (Balaenopteridae). Canadian Journal of Zoology, 2015, 93, 687-700.	1.0	11
17	Scaling of maneuvering performance in baleen whales: larger whales outperform expectations. Journal of Experimental Biology, 2022, 225, .	1.7	10