Richard W Brill

List of Publications by Year
in descending order

37 papers	1,836 citations	393982 19 h-index	377514 34 g-index
38 all docs	38 docs citations	38 times ranked	1676 citing authors

#	Article	IF	Citations
1	A review of temperature and oxygen tolerance studies of tunas pertinent to fisheries oceanography, movement models and stock assessments. Fisheries Oceanography, 1994, 3, 204-216.	0.9	206
2	Vertical movements of bigeye tuna (Thunnus obesus) associated with islands, buoys, and seamounts near the main Hawaiian Islands from archival tagging data. Fisheries Oceanography, 2003, 12, 152-169.	0.9	196
3	Selective advantages conferred by the high performance physiology of tunas, billfishes, and dolphin fish. Comparative Biochemistry and Physiology A, Comparative Physiology, 1996, 113, 3-15.	0.7	177
4	Warm Eyes Provide Superior Vision in Swordfishes. Current Biology, 2005, 15, 55-58.	1.8	172
5	Predicting Postrelease Survival in Large Pelagic Fish. Transactions of the American Fisheries Society, 2006, 135, 1389-1397.	0.6	158
6	Effects of anaerobic exercise accompanying catch-and-release fishing on blood-oxygen affinity of the sandbar shark (Carcharhinus plumbeus, Nardo). Journal of Experimental Marine Biology and Ecology, 2008, 354, 132-143.	0.7	86
7	Physiology in the service of fisheries science: Why thinking mechanistically matters. Reviews in Fish Biology and Fisheries, 2015, 25, 425-447.	2.4	80
8	Metabolic and cardiac scope of high energy demand teleosts, the tunas. Canadian Journal of Zoology, 1991, 69, 2002-2009.	0.4	72
9	Interannual variation in large-scale movement of Atlantic bluefin tuna (Thunnus thynnus) determined from pop-up satellite archival tags. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 2154-2166.	0.7	57
10	Blood Gas, Oxygen Saturation, pH, and Lactate Values in Elasmobranch Blood Measured with a Commercially Available Portable Clinical Analyzer and Standard Laboratory Instruments. Journal of Aquatic Animal Health, 2010, 22, 229-234.	0.6	57
11	Comparative visual function in five sciaenid fishes inhabiting Chesapeake Bay. Journal of Experimental Biology, 2008, 211, 3601-3612.	0.8	53
12	Comparative visual function in four piscivorous fishes inhabiting Chesapeake Bay. Journal of Experimental Biology, 2010, 213, 1751-1761.	0.8	49
13	Temperature Sensitivity of Cardiac Function in Pelagic Fishes with Different Vertical Mobilities: Yellowfin Tuna (Thunnus albacares), Bigeye Tuna (Thunnus obesus), Mahimahi (Coryphaena hippurus), and Swordfish (Xiphias gladius). Physiological and Biochemical Zoology, 2009, 82, 280-290.	0.6	47
14	Fisheries conservation on the high seas: linking conservation physiology and fisheries ecology for the management of large pelagic fishes. , 2016, 4, cov059.		42
15	Temperature, hypoxia, and mycobacteriosis: effects on adult striped bass Morone saxatilis metabolic performance. Diseases of Aquatic Organisms, 2014, 108, 113-127.	0.5	40
16	Sharing the water column: physiological mechanisms underlying species-specific habitat use in tunas. Reviews in Fish Biology and Fisheries, 2017, 27, 843-880.	2.4	37
17	Effects of open- and closed-system temperature changes on blood oxygen dissociation curves of skipjack tuna, Katsuwonus pelamis, and yellowfin tuna, Thunnus albacares. Canadian Journal of Zoology, 1991, 69, 1814-1821.	0.4	35
18	Projections of climateâ€driven changes in tuna vertical habitat based on speciesâ€specific differences in blood oxygen affinity. Global Change Biology, 2017, 23, 4019-4028.	4.2	33

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19	The ability of blue crab (Callinectes sapidus, Rathbun 1886) to sustain aerobic metabolism during hypoxia. Journal of Experimental Marine Biology and Ecology, 2015, 471, 126-136.	0.7	29
20	Physiological stress and post-release mortality of white marlin (Kajikia albida) caught in the United States recreational fishery. , 2016, 4, cov066.		27
21	Projections of future habitat use by Atlantic bluefin tuna: mechanistic vs. correlative distribution models. ICES Journal of Marine Science, 2017, 74, 698-716.	1.2	23
22	Combined Effects of Acute Temperature Change and Elevated pCO2 on the Metabolic Rates and Hypoxia Tolerances of Clearnose Skate (Rostaraja eglanteria), Summer Flounder (Paralichthys dentatus), and Thorny Skate (Amblyraja radiata). Biology, 2019, 8, 56.	1.3	19
23	Effects of open- and closed-system temperature changes on blood O2-binding characteristics of Atlantic bluefin tuna (Thunnus thynnus). Fish Physiology and Biochemistry, 2006, 32, 283-294.	0.9	18
24	Spectral sensitivity, luminous sensitivity, and temporal resolution of the visual systems in three sympatric temperate coastal shark species. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2014, 200, 997-1013.	0.7	17
25	Comparative visual ecophysiology of mid-Atlantic temperate reef fishes. Biology Open, 2013, 2, 1371-1381.	0.6	15
26	Tunas and their fisheries: safeguarding sustainability in the twenty-first century. Reviews in Fish Biology and Fisheries, 2017, 27, 691-695.	2.4	14
27	Metabolic scope and hypoxia tolerance of Atlantic croaker (Micropogonias undulatus Linnaeus, 1766) and spot (Leiostomus xanthurus LacepÃ¨de, 1802), with insights into the effects of acute temperature change. Journal of Experimental Marine Biology and Ecology, 2019, 516, 150-158.	0.7	11
28	Analysing tropical elasmobranch blood samples in the field: blood stability during storage and validation of the HemoCueÂ® haemoglobin analyser. , 2019, 7, coz081.		10
29	Plasticity in Standard and Maximum Aerobic Metabolic Rates in Two Populations of an Estuarine Dependent Teleost, Spotted Seatrout (Cynoscion nebulosus). Biology, 2019, 8, 46.	1.3	8
30	Potential for Electropositive Metal to Reduce the Interactions of Atlantic Sturgeon with Fishing Gear. Conservation Biology, 2014, 28, 278-282.	2.4	7
31	Elasmobranch Cardiovascular System. Fish Physiology, 2015, , 1-82.	0.2	7
32	Physiological limits to inshore invasion of Indo-Pacific lionfish (Pterois spp.): insights from the functional characteristics of their visual system and hypoxia tolerance. Biological Invasions, 2020, 22, 2079-2097.	1.2	7
33	The effects of elevated potassium, acidosis, reduced oxygen levels, and temperature on the functional properties of isolated myocardium from three elasmobranch fishes: clearnose skate (Rostroraja) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 127-141.	0.7	7
34	Effects of dietary taurine level on visual function in European sea bass (Dicentrarchus labrax). PLoS ONE, 2019, 14, e0214347.	1.1	6
35	A lack of red blood cell swelling in five elasmobranch fishes following air exposure and exhaustive exercise. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 258, 110978.	0.8	6
36	Characterization of the functional and anatomical differences in the atrial and ventricular myocardium from three species of elasmobranch fishes: smooth dogfish (Mustelus canis), sandbar shark (Carcharhinus plumbeus), and clearnose skate (Raja eglanteria). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 291-313.	0.7	5

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37	Determinants of coronary blood flow in sandbar sharks, Carcharhinus plumbeus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 315-327.	0.7	3