

Brad A Seibel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

5,295
citations

29
h-index

72
g-index

75
ext. papers

6,499
ext. citations

6.5
avg, IF

6.08
L-index

#	Paper	IF	Citations
73	Impacts of ocean acidification on marine fauna and ecosystem processes. <i>ICES Journal of Marine Science</i> , 2008 , 65, 414-432	2.7	1343
72	Declining oxygen in the global ocean and coastal waters. <i>Science</i> , 2018 , 359,	33.3	909
71	Ecophysiology. Climate change tightens a metabolic constraint on marine habitats. <i>Science</i> , 2015 , 348, 1132-5	33.3	363
70	Synergistic effects of climate-related variables suggest future physiological impairment in a top oceanic predator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20776-80	11.5	241
69	Critical oxygen levels and metabolic suppression in oceanic oxygen minimum zones. <i>Journal of Experimental Biology</i> , 2011 , 214, 326-36	3	227
68	The rate of metabolism in marine animals: environmental constraints, ecological demands and energetic opportunities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 2061-78	5.8	209
67	Biological impacts of deep-sea carbon dioxide injection inferred from indices of physiological performance. <i>Journal of Experimental Biology</i> , 2003 , 206, 641-50	3	138
66	Trimethylamine oxide accumulation in marine animals: relationship to acylglycerol storage. <i>Journal of Experimental Biology</i> , 2002 , 205, 297-306	3	106
65	And on Top of All That Coping with Ocean Acidification in the Midst of Many Stressors. <i>Oceanography</i> , 2015 , 25, 48-61	2.3	101
64	On the depth and scale of metabolic rate variation: scaling of oxygen consumption rates and enzymatic activity in the Class Cephalopoda (Mollusca). <i>Journal of Experimental Biology</i> , 2007 , 210, 1-11	3	99
63	Depth-related trends in metabolism of benthic and benthopelagic deep-sea fishes. <i>Limnology and Oceanography</i> , 2007 , 52, 2306-2316	4.8	86
62	Metabolic physiology of the Humboldt squid, <i>Dosidicus gigas</i> : Implications for vertical migration in a pronounced oxygen minimum zone. <i>Progress in Oceanography</i> , 2010 , 86, 72-80	3.8	83
61	Energetic plasticity underlies a variable response to ocean acidification in the pteropod, <i>Limacina helicina antarctica</i> . <i>PLoS ONE</i> , 2012 , 7, e30464	3.7	81
60	Zooplankton in the eastern tropical north Pacific: Boundary effects of oxygen minimum zone expansion. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013 , 79, 122-140	2.5	79
59	Cascading trophic impacts of reduced biomass in the Ross Sea, Antarctica: just the tip of the iceberg?. <i>Biological Bulletin</i> , 2003 , 205, 93-7	1.5	73
58	Natural egg mass deposition by the Humboldt squid (<i>Dosidicus gigas</i>) in the Gulf of California and characteristics of hatchlings and paralarvae. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2008 , 88, 759-770	1.1	67
57	Correlation of trimethylamine oxide and habitat depth within and among species of teleost fish: an analysis of causation. <i>Physiological and Biochemical Zoology</i> , 2007 , 80, 197-208	2	54

56	Poles apart: the "bipolar" pteropod species <i>Limacina helicina</i> is genetically distinct between the Arctic and Antarctic oceans. <i>PLoS ONE</i> , 2010 , 5, e9835	3.7	51
55	Metabolic trait diversity shapes marine biogeography. <i>Nature</i> , 2020 , 585, 557-562	50.4	50
54	Post-spawning egg care by a squid. <i>Nature</i> , 2005 , 438, 929	50.4	49
53	Deep-sea octopus (<i>Graledone boreopacifica</i>) conducts the longest-known egg-brooding period of any animal. <i>PLoS ONE</i> , 2014 , 9, e103437	3.7	44
52	Metabolic temperature compensation and coevolution of locomotory performance in pteropod molluscs. <i>Integrative and Comparative Biology</i> , 2007 , 47, 880-91	2.8	43
51	Metabolism of benthic octopods (Cephalopoda) as a function of habitat depth and oxygen concentration. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000 , 47, 1247-1260	2.5	38
50	Metabolic suppression during protracted exposure to hypoxia in the jumbo squid, <i>Dosidicus gigas</i> , living in an oxygen minimum zone. <i>Journal of Experimental Biology</i> , 2014 , 217, 2555-68	3	36
49	Metabolic suppression in thecosomatous pteropods as an effect of low temperature and hypoxia in the eastern tropical North Pacific. <i>Marine Biology</i> , 2012 , 159, 1955-1967	2.5	36
48	Ocean Acidification and Coastal Marine Invertebrates: Tracking CO Effects from Seawater to the Cell. <i>Annual Review of Marine Science</i> , 2020 , 12, 499-523	15.4	35
47	Large-scale diversity patterns of cephalopods in the Atlantic open ocean and deep sea. <i>Ecology</i> , 2008 , 89, 3449-61	4.6	34
46	Ammonium content and buoyancy in midwater cephalopods. <i>Journal of Experimental Marine Biology and Ecology</i> , 2004 , 313, 375-387	2.1	33
45	Ecophysiological influence on scaling of aerobic and anaerobic metabolism of pelagic gonatid squids. <i>Physiological and Biochemical Zoology</i> , 2009 , 82, 419-29	2	32
44	Don't throw the fish out with the respirometry water. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	29
43	The jumbo squid, <i>Dosidicus gigas</i> (Ommastrephidae), living in oxygen minimum zones II: Blood oxygen binding. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 95, 139-144	2.3	28
42	Oxygen supply capacity in animals evolves to meet maximum demand at the current oxygen partial pressure regardless of size or temperature. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	27
41	Climate-driven aerobic habitat loss in the California Current System. <i>Science Advances</i> , 2020 , 6, eaay3188	14.3	27
40	Hypoxia Tolerance and Metabolic Suppression in Oxygen Minimum Zone Euphausiids: Implications for Ocean Deoxygenation and Biogeochemical Cycles. <i>Integrative and Comparative Biology</i> , 2016 , 56, 510-23	2.8	27
39	Fine-scale vertical distribution of macroplankton and micronekton in the Eastern Tropical North Pacific in association with an oxygen minimum zone. <i>Journal of Plankton Research</i> , 2014 , 36, 1557-1575	2.2	26

38	Vampire blood: respiratory physiology of the vampire squid (Cephalopoda: Vampyromorpha) in relation to the oxygen minimum layer. <i>Experimental Biology Online</i> , 1999 , 4, 1-10		26
37	The jumbo squid, <i>Dosidicus gigas</i> (Ommastrephidae), living in oxygen minimum zones I: Oxygen consumption rates and critical oxygen partial pressures. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 95, 218-224	2.3	23
36	Ecological biogeography of cephalopod molluscs in the Atlantic Ocean: historical and contemporary causes of coastal diversity patterns. <i>Global Ecology and Biogeography</i> , 2008 , 17, 600-610	6.1	23
35	The effect of ocean warming on black sea bass (<i>Centropristis striata</i>) aerobic scope and hypoxia tolerance. <i>PLoS ONE</i> , 2019 , 14, e0218390	3.7	21
34	Ventilation rates and activity levels of juvenile jumbo squid under metabolic suppression in the oxygen minimum zone. <i>Journal of Experimental Biology</i> , 2013 , 216, 359-68	3	21
33	Metabolic suppression in the pelagic crab, <i>Pleuroncodes planipes</i> , in oxygen minimum zones. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018 , 224, 88-97	2.3	18
32	Cephalopod Susceptibility to Asphyxiation via Ocean Incalescence, Deoxygenation, and Acidification. <i>Physiology</i> , 2016 , 31, 418-429	9.8	18
31	Effects of elevated ammonia concentrations on survival, metabolic rates, and glutamine synthetase activity in the Antarctic pteropod mollusk <i>Clione limacina antarctica</i> . <i>Polar Biology</i> , 2012 , 35, 1123-1128	2	16
30	Voyage of the argonauts in the pelagic realm: physiological and behavioural ecology of the rare paper nautilus, <i>Argonauta nouryi</i> . <i>ICES Journal of Marine Science</i> , 2010 , 67, 1494-1500	2.7	16
29	Potential role for microRNA in regulating hypoxia-induced metabolic suppression in jumbo squids. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2018 , 1861, 586-593	6	15
28	Ocean acidification does not limit squid metabolism via blood oxygen supply. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	14
27	Trade-off between aerobic capacity and locomotor capability in an Antarctic pteropod. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6192-6	11.5	13
26	Ocean deoxygenation and copepods: coping with oxygen minimum zone variability. <i>Biogeosciences</i> , 2020 , 17, 2315-2339	4.6	12
25	The thermal stress response to diel vertical migration in the hyperiid amphipod <i>Phronima sedentaria</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015 , 187, 20-6	2.6	11
24	Cold seeps associated with a submarine debris avalanche deposit at Kick'em Jenny volcano, Grenada (Lesser Antilles). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 93, 156-160	2.5	11
23	Observations of multiple pelagic egg masses from small-sized jumbo squid (<i>Dosidicus gigas</i>) in the Gulf of California. <i>Journal of Natural History</i> , 2017 , 51, 2569-2584	0.5	11
22	Metabolism of pelagic cephalopods as a function of habitat depth: a reanalysis using phylogenetically independent contrasts. <i>Biological Bulletin</i> , 2001 , 201, 1-5	1.5	11
21	Oxygen supply capacity breathes new life into critical oxygen partial pressure (Pcrit). <i>Journal of Experimental Biology</i> , 2021 , 224,	3	11

20	Effects of short-term hyper- and hypo-osmotic exposure on the osmoregulatory strategy of unfed North Pacific spiny dogfish (<i>Squalus suckleyi</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016 , 193, 29-35	2.6	10
19	Temperature compensation of aerobic capacity and performance in the Antarctic pteropod, <i>Clione antarctica</i> , compared with its northern congener, <i>C. limacina</i> . <i>Journal of Experimental Biology</i> , 2012 , 215, 3370-8	3	10
18	Trimethylamine oxide accumulation as a function of depth in Hawaiian mid-water fishes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016 , 112, 37-44	2.5	10
17	Hydrothermal venting and mineralization in the crater of Kick'em Jenny submarine volcano, Grenada (Lesser Antilles). <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 1000-1019	3.6	9
16	Stable isotopes in the eye lenses of <i>Doryteuthis plei</i> (Blainville 1823): Exploring natal origins and migratory patterns in the eastern Gulf of Mexico. <i>Continental Shelf Research</i> , 2019 , 174, 76-84	2.4	8
15	Environmental Physiology of the Jumbo Squid, <i>Dosidicus gigas</i> (d'Orbigny, 1835) (Cephalopoda: Ommastrephidae): Implications for Changing Climate*. <i>American Malacological Bulletin</i> , 2015 , 33, 161-173 ²	2.2	8
14	Slow swimming, fast strikes: effects of feeding behavior on scaling of anaerobic metabolism in epipelagic squid. <i>Journal of Experimental Biology</i> , 2014 , 217, 2710-6	3	7
13	Vertical pelagic habitat of euphausiid species assemblages in the Gulf of California. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017 , 123, 75-89	2.5	6
12	Ecophysiological implications of vertical migration into oxygen minimum zones for the hyperiid amphipod <i>Phronima sedentaria</i> . <i>Journal of Plankton Research</i> , 2015 , 37, 897-911	2.2	6
11	Do squid breathe through their skin?. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	5
10	Synthetic capacity does not predict elasmobranchs' ability to maintain trimethylamine oxide without a dietary contribution. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2018 , 217, 35-42	2.6	4
9	Ocean science. Animal function at the heart (and gut) of oceanography. <i>Science</i> , 2009 , 323, 343-4	33.3	4
8	A Global Ocean Oxygen Database and Atlas for Assessing and Predicting Deoxygenation and Ocean Health in the Open and Coastal Ocean. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	4
7	Metabolic adaptations of the pelagic octopod <i>Japetella diaphana</i> to oxygen minimum zones. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019 , 148, 123-131	2.5	3
6	Deep-breathing cephalopods?. <i>Nature</i> , 1996 , 384, 421-421	50.4	2
5	Natural egg mass deposition by the Humboldt squid (<i>Dosidicus gigas</i>) in the Gulf of California and characteristics of hatchlings and paralarvae [ERRATUM]. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017 , 97, 257-257	1.1	1
4	Oxygen supply capacity in animals evolves to meet maximum demand at the current oxygen partial pressure regardless of size or temperature		1
3	Thermal Range and Physiological Tolerance Mechanisms in Two Shark Species from the Northwest Atlantic. <i>Biological Bulletin</i> , 2020 , 238, 131-144	1.5	1

2 Response to 'Coming up for air'. *Journal of Experimental Biology*, **2021**, 224,

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1 Hypoxic Jumbo Squid Activate Neuronal Apoptosis but Not MAPK or Antioxidant Enzymes during Oxidative Stress. *Physiological and Biochemical Zoology*, **2021**, 94, 171-179

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