

# Jayson M Semmens

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

4,781  
citations

87723

38  
h-index

118652

62  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated acoustic tracking of aquatic animals: scales, design and deployment of listening station arrays. <i>Marine and Freshwater Research</i> , 2006, 57, 1.	0.7	483
2	Tolerance limit for fish growth exceeded by warming waters. <i>Nature Climate Change</i> , 2011, 1, 110-113.	8.1	244
3	Global proliferation of cephalopods. <i>Current Biology</i> , 2016, 26, R406-R407.	1.8	211
4	Bottom trawl fishing footprints on the world's continental shelves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10275-E10282.	3.3	189
5	Interpreting diel activity patterns from acoustic telemetry: the need for controls. <i>Marine Ecology - Progress Series</i> , 2010, 419, 295-301.	0.9	154
6	Remote bioenergetics measurements in wild fish: Opportunities and challenges. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2016, 202, 23-37.	0.8	119
7	Understanding octopus growth: patterns, variability and physiology. <i>Marine and Freshwater Research</i> , 2004, 55, 367.	0.7	117
8	Approaches to resolving cephalopod movement and migration patterns. <i>Reviews in Fish Biology and Fisheries</i> , 2007, 17, 401-423.	2.4	106
9	The influence of environmental parameters on the performance and detection range of acoustic receivers. <i>Methods in Ecology and Evolution</i> , 2016, 7, 825-835.	2.2	106
10	Application of environmental DNA to detect an endangered marine skate species in the wild. <i>PLoS ONE</i> , 2017, 12, e0178124.	1.1	98
11	In situ measurement of coastal ocean movements and survival of juvenile Pacific salmon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8708-8713.	3.3	93
12	Widely used marine seismic survey air gun operations negatively impact zooplankton. <i>Nature Ecology and Evolution</i> , 2017, 1, 195.	3.4	91
13	Response of Atlantic salmon <i>Salmo salar</i> to temperature and dissolved oxygen extremes established using animal-borne environmental sensors. <i>Scientific Reports</i> , 2017, 7, 4545.	1.6	91
14	Site fidelity and sex-specific migration in a mobile apex predator: implications for conservation and ecosystem dynamics. <i>Animal Behaviour</i> , 2011, 81, 1039-1048.	0.8	88
15	Accelerometry estimates field metabolic rate in giant Australian cuttlefish <i>Sepia apama</i> during breeding. <i>Journal of Animal Ecology</i> , 2011, 80, 422-430.	1.3	76
16	Ecotourism increases the field metabolic rate of whitetip reef sharks. <i>Biological Conservation</i> , 2016, 199, 132-136.	1.9	74
17	Non-lethal method to obtain stomach samples from a large marine predator and the use of DNA analysis to improve dietary information. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 393, 188-192.	0.7	73
18	The effects of cage-diving activities on the fine-scale swimming behaviour and space use of white sharks. <i>Marine Biology</i> , 2013, 160, 2863-2875.	0.7	66

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19	Swimming strategies and energetics of endothermic white sharks during foraging. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	63
20	Integrating acoustic telemetry into mark-recapture models to improve the precision of apparent survival and abundance estimates. <i>Oecologia</i> , 2015, 178, 761-772.	0.9	59
21	Assessing the validity of stylets as ageing tools in <i>Octopus pallidus</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2006, 338, 35-42.	0.7	53
22	Limited use of stored energy reserves for reproduction by the tropical loliginid squid <i>Photololigo</i> sp.. <i>Journal of Zoology</i> , 2000, 251, 307-313.	0.8	52
23	Cephalopod hatchling growth: the effects of initial size and seasonal temperatures. <i>Marine Biology</i> , 2007, 151, 1375-1383.	0.7	52
24	Rain reverses diel activity rhythms in an estuarine teleost. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122363.	1.2	52
25	Sequential movement into coastal habitats and high spatial overlap of predator and prey suggest high predation pressure in protected areas. <i>Oikos</i> , 2012, 121, 882-890.	1.2	51
26	Exposure to seismic air gun signals causes physiological harm and alters behavior in the scallop <i>Pecten fumatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8537-E8546.	3.3	49
27	Feeding requirements of white sharks may be higher than originally thought. <i>Scientific Reports</i> , 2013, 3, 1471.	1.6	48
28	Changes in the digestive gland of the loliginid squid <i>Sepioteuthis lessoniana</i> (Lesson 1830) associated with feeding. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 274, 19-39.	0.7	46
29	Reproductive status of <i>Octopus pallidus</i> , and its relationship to age and size. <i>Marine Biology</i> , 2008, 155, 375-385.	0.7	45
30	An examination of the role of the digestive gland of two loliginid squids, with respect to lipid: storage or excretion?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 1685-1690.	1.2	44
31	Fine-Scale Movements of the Broadnose Sevengill Shark and Its Main Prey, the Gummy Shark. <i>PLoS ONE</i> , 2010, 5, e15464.	1.1	44
32	Seasonality and site fidelity of the zebra shark, <i>Stegostoma fasciatum</i> , in southeast Queensland, Australia. <i>Animal Behaviour</i> , 2013, 85, 471-481.	0.8	44
33	High survivorship after catch-and-release fishing suggests physiological resilience in the endothermic shortfin mako shark ( <i>Isurus oxyrinchus</i> )., 2015, 3, cov044.		44
34	A new method for resolving uncertainty of energy requirements in large water breathers: the "megafume" seagoing swim-tunnel respirometer. <i>Methods in Ecology and Evolution</i> , 2015, 6, 668-677.	2.2	44
35	Pulling or drilling, does size or species matter? An experimental study of prey handling in <i>Octopus dierythraeus</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2003, 290, 165-178.	0.7	43
36	From physiology to physics: are we recognizing the flexibility of biologging tools?. <i>Journal of Experimental Biology</i> , 2014, 217, 317-322.	0.8	43

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37	Use of Anthropogenic Sea Floor Structures by Australian Fur Seals: Potential Positive Ecological Impacts of Marine Industrial Development?. PLoS ONE, 2015, 10, e0130581.	1.1	43
38	Seasonal occurrence and population structure of the broadnose sevengill shark <i>Notorynchus cepedianus</i> in coastal habitats of south-east Tasmania. Journal of Fish Biology, 2010, 77, 1688-1701.	0.7	42
39	From video recordings to whisker stable isotopes: a critical evaluation of timescale in assessing individual foraging specialisation in Australian fur seals. Oecologia, 2016, 180, 657-670.	0.9	42
40	Determining the age and growth of wild octopus using stylet increment analysis. Marine Ecology - Progress Series, 2008, 367, 213-222.	0.9	40
41	Use of acoustic telemetry for spatial management of southern calamary <i>Sepioteuthis australis</i> , a highly mobile inshore squid species. Marine Ecology - Progress Series, 2006, 328, 1-15.	0.9	40
42	Predator-prey relationships and foraging ecology of a marine apex predator with a wide temperate distribution. Marine Ecology - Progress Series, 2010, 416, 189-200.	0.9	35
43	Body Size, Growth and Life Span: Implications for the Polewards Range Shift of <i>Octopus tetricus</i> in South-Eastern Australia. PLoS ONE, 2014, 9, e103480.	1.1	35
44	Climate change alters stability and species potential interactions in a large marine ecosystem. Global Change Biology, 2018, 24, e90-e100.	4.2	34
45	Interacting with wildlife tourism increases activity of white sharks. , 2018, 6, coy019.		33
46	The impact of seismic air gun exposure on the haemolymph physiology and nutritional condition of spiny lobster, <i>Jasus edwardsii</i> . Marine Pollution Bulletin, 2017, 125, 146-156.	2.3	32
47	Effects of an Electric Field on White Sharks: In Situ Testing of an Electric Deterrent. PLoS ONE, 2013, 8, e62730.	1.1	31
48	Population genetic signatures of a climate change driven marine range extension. Scientific Reports, 2018, 8, 9558.	1.6	31
49	Network analysis of acoustic tracking data reveals the structure and stability of fish aggregations in the ocean. Animal Behaviour, 2013, 85, 839-848.	0.8	29
50	Spatial and temporal use of spawning aggregation sites by the tropical sciaenid <i>Protonibea diacanthus</i> . Marine Ecology - Progress Series, 2010, 403, 193-203.	0.9	29
51	Reproduction in the deepwater squid <i>Moroteuthis ingens</i> , what does it cost?. Marine Biology, 2004, 145, 905-916.	0.7	27
52	Normalisation models for accounting for fat content in stable isotope measurements in salmonid muscle tissue. Marine Biology, 2012, 159, 57-64.	0.7	27
53	Seismic air guns damage rock lobster mechanosensory organs and impair righting reflex. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191424.	1.2	27
54	Microsatellite DNA markers and morphometrics reveal a complex population structure in a merobenthic octopus species ( <i>Octopus maorum</i> ) in south-east Australia and New Zealand. Marine Biology, 2009, 156, 1183-1192.	0.7	26

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55	Testing optimal foraging theory models on benthic divers. <i>Animal Behaviour</i> , 2016, 112, 127-138.	0.8	26
56	The power of national acoustic tracking networks to assess the impacts of human activity on marine organisms during the COVID-19 pandemic. <i>Biological Conservation</i> , 2021, 256, 108995.	1.9	26
57	Effects of temperature on energetics and the growth pattern of benthic octopuses. <i>Marine Ecology - Progress Series</i> , 2009, 374, 167-179.	0.9	26
58	Markov models and network analysis reveal sex-specific differences in the space-use of a coastal apex predator. <i>Oikos</i> , 2015, 124, 307-318.	1.2	25
59	Using Age-Based Life History Data to Investigate the Life Cycle and Vulnerability of <i>Octopus cyanea</i> . <i>PLoS ONE</i> , 2012, 7, e43679.	1.1	24
60	A first look at the metabolic rate of Greenland sharks ( <i>Somniosus microcephalus</i> ) in the Canadian Arctic. <i>Scientific Reports</i> , 2020, 10, 19297.	1.6	23
61	Do exotic salmonids feed on native fauna after escaping from aquaculture cages in Tasmania, Australia?. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 1539-1551.	0.7	22
62	Seismic air gun exposure during early-stage embryonic development does not negatively affect spiny lobster <i>Jasus edwardsii</i> larvae (Decapoda:Palinuridae). <i>Scientific Reports</i> , 2016, 6, 22723.	1.6	22
63	Assessing the stock status of holobenthic octopus fisheries: is catch per unit effort sufficient?. <i>ICES Journal of Marine Science</i> , 2009, 66, 478-487.	1.2	21
64	Observations of marine wildlife tourism effects on a non-focal species. <i>Journal of Fish Biology</i> , 2017, 91, 981-988.	0.7	21
65	An examination of variable growth in the loliginid squid <i>Sepioteuthis lessoniana</i> : a whole animal and reductionist approach. <i>Marine Ecology - Progress Series</i> , 2000, 193, 135-141.	0.9	21
66	Predation of trap-caught southern rock lobsters, <i>Jasus edwardsii</i> (Hutton, 1875), in Tasmanian waters by the Maori octopus, <i>Octopus maorum</i> (Hutton, 1880): Spatial and temporal trends. <i>Fisheries Research</i> , 2006, 77, 10-16.	0.9	20
67	Endothermy makes fishes faster but does not expand their thermal niche. <i>Functional Ecology</i> , 2021, 35, 1951-1959.	1.7	20
68	Spatial distribution of commercial dredge fishing effort: application to survey design and the spatial management of a patchily distributed benthic bivalve species. <i>Marine and Freshwater Research</i> , 2007, 58, 756.	0.7	19
69	A multilevel approach to examining cephalopod growth using <i>Octopus pallidus</i> as a model. <i>Journal of Experimental Biology</i> , 2011, 214, 2799-2807.	0.8	19
70	Evaluating abundance trends of iconic species using local ecological knowledge. <i>Biological Conservation</i> , 2018, 225, 197-207.	1.9	18
71	Continental-scale acoustic telemetry and network analysis reveal new insights into stock structure. <i>Fish and Fisheries</i> , 2021, 22, 987-1005.	2.7	18
72	Age determination in merobenthic octopuses using stylet increment analysis: assessing future challenges using <i>Macroctopus maorum</i> as a model. <i>ICES Journal of Marine Science</i> , 2011, 68, 2059-2063.	1.2	17

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73	Intraspecific differences in movement, dive behavior and vertical habitat preferences of a key marine apex predator. <i>Marine Ecology - Progress Series</i> , 2014, 495, 249-262.	0.9	17
74	Reproductive capacity of a marine species ( <i>Octopus tetricus</i> ) within a recent range extension area. <i>Marine and Freshwater Research</i> , 2015, 66, 999.	0.7	17
75	Stylet elemental signatures indicate population structure in a holobenthic octopus species, <i>Octopus pallidus</i> . <i>Marine Ecology - Progress Series</i> , 2008, 371, 1-10.	0.9	17
76	Life history matters: comparisons of population structuring in sympatric octopus species that differ in the presence of a pelagic larval stage. <i>Marine Ecology - Progress Series</i> , 2013, 486, 203-212.	0.9	17
77	Quantification of the age-pigment lipofuscin in known-age octopus ( <i>Octopus pallidus</i> ): A potential tool for age determination. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 397, 8-12.	0.7	16
78	Breeding durations as estimators of adult sex ratios and population size. <i>Oecologia</i> , 2011, 165, 341-347.	0.9	16
79	Dive characteristics can predict foraging success in Australian fur seals ( <i>Arctocephalus pusillus</i> ). <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 397, 13-22.	0.6	16
80	Blue blood on ice: modulated blood oxygen transport facilitates cold compensation and eurythermy in an Antarctic octopod. <i>Frontiers in Zoology</i> , 2015, 12, 6.	0.9	15
81	Physiological responses to hypersalinity correspond to nursery ground usage in two inshore shark species ( <i>Mustelus antarcticus</i> & <i>Galeorhinus galeus</i> ). <i>Journal of Experimental Biology</i> , 2016, 219, 2028-38.	0.8	15
82	Using stylet elemental signatures to determine the population structure of <i>Octopus maorum</i> . <i>Marine Ecology - Progress Series</i> , 2008, 360, 125-133.	0.9	15
83	Effect of Feeding on the Structure of the Digestive Gland of the Tropical Sepioid <i>Idiosepius Pygmaeus</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1995, 75, 885-897.	0.4	14
84	Early life-history processes in benthic octopus: Relationships between temperature, feeding, food conversion, and growth in juvenile <i>Octopus pallidus</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 354, 81-92.	0.7	14
85	Examining the functional role of current area closures used for the conservation of an overexploited and highly mobile fishery species. <i>ICES Journal of Marine Science</i> , 2015, 72, 2234-2244.	1.2	14
86	Habitat Characteristics Predicting Distribution and Abundance Patterns of Scallops in D'Entrecasteaux Channel, Tasmania. <i>PLoS ONE</i> , 2014, 9, e85895.	1.1	13
87	The use of acoustic accelerometer tags to determine seasonal changes in activity and catchability of a recreationally caught marine teleost. <i>ICES Journal of Marine Science</i> , 2015, 72, 2512-2520.	1.2	13
88	Reproductive strategies and energy sources fuelling reproductive growth in a protracted spawner. <i>Marine Biology</i> , 2016, 163, 1.	0.7	13
89	Preparing to launch: biologging reveals the dynamics of white shark breaching behaviour. <i>Marine Biology</i> , 2019, 166, 1.	0.7	13
90	Functional traits explain trophic allometries of cephalopods. <i>Journal of Animal Ecology</i> , 2020, 89, 2692-2703.	1.3	12

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91	Partial female migration and cool-water migration pathways in an overfished shark. <i>ICES Journal of Marine Science</i> , 2019, 76, 1083-1093.	1.2	11
92	A large-scale experiment finds no evidence that a seismic survey impacts a demersal fish fauna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
93	Modelling size-at-age in wild immature female octopus: a bioenergetics approach. <i>Marine Ecology - Progress Series</i> , 2009, 384, 159-174.	0.9	11
94	Natural tags reveal populations of Conservation Dependent school shark use different pupping areas. <i>Marine Ecology - Progress Series</i> , 2018, 599, 147-156.	0.9	11
95	Pass the salt: physiological consequences of ecologically relevant hyposmotic exposure in juvenile gummy sharks ( <i>Mustelus antarcticus</i> ) and school sharks ( <i>Galeorhinus galeus</i> ). , 2016, 4, cow036.		10
96	Motivation and harvesting behaviour of fishers in a specialized fishery targeting a top predator species at risk. <i>People and Nature</i> , 2019, 1, 44-58.	1.7	10
97	Role of density in aggregation patterns and synchronization of spawning in the hermaphroditic scallop <i>Pecten fumatus</i> . <i>Marine Biology</i> , 2014, 161, 2857-2868.	0.7	9
98	Quantitative elemental imaging of octopus stylets using PIXE and the nuclear microprobe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 67-72.	0.6	8
99	Identifying important species that amplify or mitigate the interactive effects of human impacts on marine food webs. <i>Conservation Biology</i> , 2019, 33, 403-412.	2.4	8
100	Identification of essential habitats: Including chimaeras into current shark protected areas. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 865-880.	0.9	8
101	Lobsters with pre-existing damage to their mechanosensory statocyst organs do not incur further damage from exposure to seismic air gun signals. <i>Environmental Pollution</i> , 2020, 267, 115478.	3.7	8
102	Life history traits and conservation actions for the Maugean skate ( <i>Zearaja maugeana</i> ), an endangered species occupying an anthropogenically impacted estuary. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 2178-2192.	0.9	8
103	Population genetics of the endangered Maugean skate ( <i>Zearaja maugeana</i> ) in Macquarie Harbour, Tasmania. <i>Conservation Genetics</i> , 2018, 19, 1505-1512.	0.8	6
104	Examining trends in abundance of an overexploited elasmobranch species in a nursery area closure. <i>Marine and Freshwater Research</i> , 2018, 69, 376.	0.7	6
105	Elemental uptake via immersion: a mass-marking technique for the early life-history stages of <i>Å</i> cephalopods. <i>Marine Ecology - Progress Series</i> , 2011, 436, 169-176.	0.9	6
106	Life in the slow lane: field metabolic rate and prey consumption rate of the Greenland shark ( <i>Somniosus microcephalus</i> ) modelled using archival biologgers. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	6
107	The impact of seismic survey exposure on the righting reflex and moult cycle of Southern Rock Lobster ( <i>Jasus edwardsii</i> ) puerulus larvae and juveniles. <i>Environmental Pollution</i> , 2022, 309, 119699.	3.7	6
108	The endemic and endangered Maugean Skate ( <i>Zearaja maugeana</i> ) exhibits short-term severe hypoxia tolerance. , 2020, 8, coz105.		5

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109	Mechanisms of Population Structuring in Giant Australian Cuttlefish <i>Sepia apama</i> . PLoS ONE, 2013, 8, e58694.	1.1	4
110	Application of the Acoustic Propagation Model to a deepwater cross-shelf curtain. Methods in Ecology and Evolution, 2017, 8, 1305-1308.	2.2	3
111	Early post-settlement mortality of the scallop <i>Pecten fumatus</i> and the role of algal mats as a refuge from predation. ICES Journal of Marine Science, 2015, 72, 2322-2331.	1.2	2
112	Stirred but not shaken: population and recruitment genetics of the scallop ( <i>Pecten fumatus</i> ) in Bass Strait, Australia. ICES Journal of Marine Science, 2016, 73, 2333-2341.	1.2	2
113	Grow or go? Energetic constraints on shark pup dispersal from pupping areas. , 2021, 9, coab017.		2
114	Evaluation of biochemical indices for assessing growth and condition of the deepwater squid <i>Moroteuthis ingens</i> . Marine Ecology - Progress Series, 2005, 289, 215-223.	0.9	2
115	The cost of a meal: factors influencing prey profitability in Australian fur seals. PeerJ, 2021, 9, e12608.	0.9	2
116	Dietary analysis reveals the vulnerability of the endangered Maugean skate ( <i>Zearaja maugeana</i> ) to benthic changes in Macquarie Harbour. Marine and Freshwater Research, 2019, 70, 745.	0.7	1
117	Determining effective acoustic array design for monitoring presence of white sharks <i>Carcharodon carcharias</i> in nearshore habitats. Marine Biology, 2021, 168, 1.	0.7	1
118	Bioenergetic Model Sensitivity to Diet Diversity Across Space, Time and Ontogeny. Frontiers in Marine Science, 2021, 8, .	1.2	1
119			