

Michelle R Heupel

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

7,767
citations

66343

42
h-index

54911

84
g-index

108
all docs

108
docs citations

108
times ranked

6421
citing authors

#	ARTICLE	IF	CITATIONS
1	Extinction risk and conservation of the world's sharks and rays. <i>ELife</i> , 2014, 3, e00590.	6.0	1,400
2	Adaptive management of the Great Barrier Reef: A globally significant demonstration of the benefits of networks of marine reserves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18278-18285.	7.1	408
3	Key Questions in Marine Megafauna Movement Ecology. <i>Trends in Ecology and Evolution</i> , 2016, 31, 463-475.	8.7	397
4	Estimation of short-term centers of activity from an array of omnidirectional hydrophones and its use in studying animal movements. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2002, 59, 23-32.	1.4	315
5	Translating Marine Animal Tracking Data into Conservation Policy and Management. <i>Trends in Ecology and Evolution</i> , 2019, 34, 459-473.	8.7	256
6	Acoustic telemetry and fisheries management. <i>Ecological Applications</i> , 2017, 27, 1031-1049.	3.8	232
7	Influence of environmental factors on shark and ray movement, behaviour and habitat use: a review. <i>Reviews in Fish Biology and Fisheries</i> , 2014, 24, 1089-1103.	4.9	210
8	Global status and conservation potential of reef sharks. <i>Nature</i> , 2020, 583, 801-806.	27.8	176
9	Estimation of Shark Home Ranges using Passive Monitoring Techniques. <i>Environmental Biology of Fishes</i> , 2004, 71, 135-142.	1.0	170
10	Ecological risk assessment of pelagic sharks caught in Atlantic pelagic longline fisheries. <i>Aquatic Living Resources</i> , 2010, 23, 25-34.	1.2	159
11	Making connections in aquatic ecosystems with acoustic telemetry monitoring. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 565-573.	4.0	136
12	Distribution and habitat partitioning of immature bull sharks (<i>Carcharhinus leucas</i>) in a Southwest Florida estuary. <i>Estuaries and Coasts</i> , 2005, 28, 78-85.	1.7	131
13	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	127
14	Evaluating marine protected areas for the conservation of tropical coastal sharks. <i>Biological Conservation</i> , 2012, 148, 200-209.	4.1	120
15	Quantifying Shark Distribution Patterns and Species-Habitat Associations: Implications of Marine Park Zoning. <i>PLoS ONE</i> , 2014, 9, e106885.	2.5	116
16	Conservation challenges of sharks with continental scale migrations. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	116
17	Large-Scale Movement and Reef Fidelity of Grey Reef Sharks. <i>PLoS ONE</i> , 2010, 5, e9650.	2.5	112
18	Envisioning the Future of Aquatic Animal Tracking: Technology, Science, and Application. <i>BioScience</i> , 2017, 67, 884-896.	4.9	108

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19	Residency and movement patterns of bonnethead sharks, <i>Sphyrna tiburo</i> , in a large Florida estuary. <i>Environmental Biology of Fishes</i> , 2006, 76, 47-67.	1.0	107
20	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.	5.2	106
21	A field and video annotation guide for baited remote underwater stereo video surveys of demersal fish assemblages. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1401-1409.	5.2	104
22	Harvest selection on Atlantic cod behavioral traits: implications for spatial management. <i>Ecology and Evolution</i> , 2012, 2, 1549-1562.	1.9	93
23	Individual and Population Benefits of Marine Reserves for Reef Sharks. <i>Current Biology</i> , 2020, 30, 480-489.e5.	3.9	90
24	Contrasting movements and connectivity of reef-associated sharks using acoustic telemetry: implications for management. <i>Ecological Applications</i> , 2015, 25, 2101-2118.	3.8	89
25	Maternal meddling in neonatal sharks: implications for interpreting stable isotopes in young animals. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1008-1016.	1.5	83
26	Ghosts in the data: false detections in VEMCO pulse position modulation acoustic telemetry monitoring equipment. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	83
27	Sympathy for the devil: a conservation strategy for devil and manta rays. <i>PeerJ</i> , 2017, 5, e3027.	2.0	82
28	Long-term presence and movement patterns of juvenile bull sharks, <i>Carcharhinus leucas</i> , in an estuarine river system. <i>Marine and Freshwater Research</i> , 2010, 61, 1.	1.3	80
29	Evidence of Partial Migration in a Large Coastal Predator: Opportunistic Foraging and Reproduction as Key Drivers?. <i>PLoS ONE</i> , 2016, 11, e0147608.	2.5	76
30	Advances in understanding the roles and benefits of nursery areas for elasmobranch populations. <i>Marine and Freshwater Research</i> , 2019, 70, 897.	1.3	74
31	Movement patterns and water quality preferences of juvenile bull sharks (<i>Carcharhinus leucas</i>) in a Florida estuary. <i>Environmental Biology of Fishes</i> , 2009, 84, 361-373.	1.0	73
32	Environmental Influences on the Spatial Ecology of Juvenile Smalltooth Sawfish (<i>Pristis pectinata</i>): Results from Acoustic Monitoring. <i>PLoS ONE</i> , 2011, 6, e16918.	2.5	68
33	Overhauling Ocean Spatial Planning to Improve Marine Megafauna Conservation. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	65
34	Residency patterns and movements of grey reef sharks (<i>Carcharhinus amblyrhynchos</i>) in semi-isolated coral reef habitats. <i>Marine Biology</i> , 2015, 162, 343-358.	1.5	63
35	Global trends in aquatic animal tracking with acoustic telemetry. <i>Trends in Ecology and Evolution</i> , 2022, 37, 79-94.	8.7	60
36	Effects of biofouling on performance of moored data logging acoustic receivers. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 327-335.	2.0	59

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37	A standardised framework for analysing animal detections from automated tracking arrays. <i>Animal Biotelemetry</i> , 2018, 6, .	1.9	59
38	Evidence of Melanoma in Wild Marine Fish Populations. <i>PLoS ONE</i> , 2012, 7, e41989.	2.5	58
39	Spatial Distribution and Long-term Movement Patterns of Cownose Rays <i>Rhinoptera bonasus</i> Within an Estuarine River. <i>Estuaries and Coasts</i> , 2008, 31, 1174-1183.	2.2	57
40	Australia's continental-scale acoustic tracking database and its automated quality control process. <i>Scientific Data</i> , 2018, 5, 170206.	5.3	51
41	A product of its environment: the epaulette shark (<i>Hemiscyllium ocellatum</i>) exhibits physiological tolerance to elevated environmental CO ₂ . , 2014, 2, cou047-cou047.		50
42	Coastal Habitat Use and Residency of Juvenile Atlantic Sharpnose Sharks (<i>Rhizoprionodon</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	2.2	49
43	Continental-scale animal tracking reveals functional movement classes across marine taxa. <i>Scientific Reports</i> , 2018, 8, 3717.	3.3	47
44	Validated age, growth and reproductive biology of <i>Carcharhinus melanopterus</i> , a widely distributed and exploited reef shark. <i>Marine and Freshwater Research</i> , 2013, 64, 965.	1.3	44
45	Foraging behaviour of the epaulette shark <i>Hemiscyllium ocellatum</i> is not affected by elevated CO ₂ . <i>ICES Journal of Marine Science</i> , 2016, 73, 633-640.	2.5	43
46	A comparison between traditional kernel-based methods and network analysis: an example from two nearshore shark species. <i>Animal Behaviour</i> , 2015, 103, 17-28.	1.9	39
47	A standardisation framework for bio-logging data to advance ecological research and conservation. <i>Methods in Ecology and Evolution</i> , 2021, 12, 996-1007.	5.2	39
48	Integrating complementary methods to improve diet analysis in fishery-targeted species. <i>Ecology and Evolution</i> , 2018, 8, 9503-9515.	1.9	38
49	Wet-season effects on the distribution of juvenile pigeye sharks, <i>Carcharhinus amboinensis</i> , in tropical nearshore waters. <i>Marine and Freshwater Research</i> , 2011, 62, 658.	1.3	35
50	Ecological Drivers of Shark Distributions along a Tropical Coastline. <i>PLoS ONE</i> , 2015, 10, e0121346.	2.5	35
51	Optimising the design of large-scale acoustic telemetry curtains. <i>Marine and Freshwater Research</i> , 2017, 68, 1403.	1.3	33
52	Movement patterns and habitat use of juvenile mangrove whiprays (<i>Himantura granulata</i>). <i>Marine and Freshwater Research</i> , 2015, 66, 481.	1.3	32
53	Are we underestimating elasmobranch abundances on baited remote underwater video systems (BRUVS) using traditional metrics?. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 503, 80-85.	1.5	30
54	To roam or to home: site fidelity in a tropical coastal shark. <i>Marine Biology</i> , 2012, 159, 1647-1657.	1.5	29

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55	Sedentary or mobile? Variability in space and depth use of an exploited coral reef fish. <i>Marine Biology</i> , 2014, 161, 2155-2166.	1.5	29
56	Analysis of the supply chain and conservation status of sharks (Elasmobranchii: Superorder) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T</i>	2.5	29
57	Reef Shark Science – Key Questions and Future Directions. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	29
58	Movement patterns of silvertip sharks (<i>Carcharhinus albimarginatus</i>) on coral reefs. <i>Coral Reefs</i> , 2015, 34, 807-821.	2.2	28
59	Interspecific interactions, movement patterns and habitat use in a diverse coastal shark assemblage. <i>Marine Biology</i> , 2019, 166, 1.	1.5	28
60	How does marker choice affect your diet analysis: comparing genetic markers and digestion levels for diet metabarcoding of tropical-reef piscivores. <i>Marine and Freshwater Research</i> , 2019, 70, 8.	1.3	27
61	Increased connectivity and depth improve the effectiveness of marine reserves. <i>Global Change Biology</i> , 2021, 27, 3432-3447.	9.5	27
62	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.	4.1	26
63	Mortality rates for two shark species occupying a shared coastal environment. <i>Fisheries Research</i> , 2012, 125-126, 184-189.	1.7	24
64	Is acoustic tracking appropriate for air-breathing marine animals? Dugongs as a case study. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 464, 1-10.	1.5	24
65	Shark conservation hindered by lack of habitat protection. <i>Global Ecology and Conservation</i> , 2020, 21, e00862.	2.1	24
66	Movements and space use of giant trevally in coral reef habitats and the importance of environmental drivers. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	23
67	Trophodynamics as a Tool for Understanding Coral Reef Ecosystems. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	23
68	Effects of environmental variables on the movement and space use of coastal sea snakes over multiple temporal scales. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 473, 26-34.	1.5	22
69	Future Directions in the Research and Management of Marine Snakes. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	22
70	First record of sea snake (<i>Hydrophis elegans</i> , Hydrophiinae) entrapped in marine debris. <i>Marine Pollution Bulletin</i> , 2013, 73, 336-338.	5.0	21
71	Assessing environmental correlates of fish movement on a coral reef. <i>Coral Reefs</i> , 2015, 34, 1267-1277.	2.2	21
72	Consistent movement traits indicative of innate behavior in neonate sharks. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 432-433, 131-137.	1.5	20

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73	A large predatory reef fish species moderates feeding and activity patterns in response to seasonal and latitudinal temperature variation. <i>Scientific Reports</i> , 2017, 7, 12966.	3.3	20
74	Continental-scale acoustic telemetry and network analysis reveal new insights into stock structure. <i>Fish and Fisheries</i> , 2021, 22, 987-1005.	5.3	18
75	Geographic and temporal variation in the trophic ecology of a small-bodied shark: evidence of resilience to environmental change. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 343-351.	1.4	17
76	Temporal and spatial activity-associated energy partitioning in free-swimming sea snakes. <i>Functional Ecology</i> , 2017, 31, 1739-1749.	3.6	17
77	Demography of a large exploited grouper, <i>Plectropomus laevis</i> : Implications for fisheries management. <i>Marine and Freshwater Research</i> , 2010, 61, 184.	1.3	16
78	Diel patterns in three-dimensional use of space by sea snakes. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	16
79	Assessing fine-scale diel movement patterns of an exploited coral reef fish. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	16
80	Intra-specific variation in movement and habitat connectivity of a mobile predator revealed by acoustic telemetry and network analyses. <i>Marine Biology</i> , 2021, 168, 1.	1.5	16
81	Effects of human footprint and biophysical factors on the body-size structure of fished marine species. <i>Conservation Biology</i> , 2022, 36, .	4.7	16
82	Evidence of behavioural thermoregulation by dugongs at the high latitude limit to their range in eastern Australia. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 508, 27-34.	1.5	15
83	The BRUVs workshop – An Australia-wide synthesis of baited remote underwater video data to answer broad-scale ecological questions about fish, sharks and rays. <i>Marine Policy</i> , 2021, 127, 104430.	3.2	15
84	Distribution of sea snakes in the Great Barrier Reef Marine Park: observations from 10-yr of baited remote underwater video station (BRUVS) sampling. <i>Coral Reefs</i> , 2014, 33, 777-791.	2.2	14
85	Diversity in immature-shark communities along a tropical coastline. <i>Marine and Freshwater Research</i> , 2015, 66, 399.	1.3	14
86	Optimal soak times for Baited Remote Underwater Video Station surveys of reef-associated elasmobranchs. <i>PLoS ONE</i> , 2020, 15, e0231688.	2.5	13
87	Latitudinal and seasonal variation in space use by a large, predatory reef fish, <i>Plectropomus leopardus</i> . <i>Functional Ecology</i> , 2019, 33, 670-680.	3.6	12
88	Estimating marine protected area network benefits for reef sharks. <i>Journal of Applied Ecology</i> , 2020, 57, 1969-1980.	4.0	12
89	Importance of Shallow Tidal Habitats as Refugia from Trawl Fishing for Sea Snakes. <i>Journal of Herpetology</i> , 2016, 50, 527-533.	0.5	11
90	Coming up for air: thermal-dependence of dive behaviours and metabolism in sea snakes. <i>Journal of Experimental Biology</i> , 2016, 219, 3447-3454.	1.7	11

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91	Inferring movement patterns of a coral reef fish using oxygen and carbon isotopes in otolith carbonate. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 456, 18-25.	1.5	10
92	Benefits of marine protected areas for tropical coastal sharks. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2016, 26, 1063-1080.	2.0	9
93	Molecular changes in skin pigmented lesions of the coral trout <i>Plectropomus leopardus</i> . <i>Marine Environmental Research</i> , 2016, 120, 130-135.	2.5	9
94	Potential of a no-take marine reserve to protect home ranges of anadromous brown trout (<i>Salmo trutta</i>) in a large river. <i>Conservation Biology</i> , 2019, 33, 108-118.	1.9	8
95	Complex Human-Shark Conflicts Confound Conservation Action. <i>Frontiers in Conservation Science</i> , 2021, 2, .	1.9	8
96	Long-term site fidelity of endangered small-tooth sawfish (<i>Pristis pectinata</i>) from different mothers. <i>Fishery Bulletin</i> , 2016, 114, 461-475.	0.2	8
97	Reef-scale variability in fish and coral assemblages on the central Great Barrier Reef. <i>Marine Biology</i> , 2018, 165, 1.	1.5	7
98	Sex-based differences in movement and space use of the blacktip reef shark, <i>Carcharhinus melanopterus</i> . <i>PLoS ONE</i> , 2020, 15, e0231142.	2.5	7
99	Spatio-Temporal Occurrence Patterns of Young Sharks in Tropical Coastal Waters. <i>Estuaries and Coasts</i> , 2015, 38, 2019-2030.	2.2	6
100	Variation in abundance, diversity and composition of coral reef fishes with increasing depth at a submerged shoal in the northern Great Barrier Reef. <i>Reviews in Fish Biology and Fisheries</i> , 2022, 32, 941-962.	4.9	6
101	Prioritising search effort to locate previously unknown populations of endangered marine reptiles. <i>Global Ecology and Conservation</i> , 2020, 22, e01013.	2.1	5
102	Nearshore movement ecology of a medium-bodied shark, the creek whaler <i>Carcharhinus fitzroyensis</i> . <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	4
103	Ecology: The Upside-Down World of Coral Reef Predators. <i>Current Biology</i> , 2016, 26, R708-R710.	3.9	4
104	Application of the Acoustic Propagation Model to a deep-water cross-shelf curtain. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1305-1308.	5.2	3
105	Repeatability of baited remote underwater video station (BRUVS) results within and between seasons. <i>PLoS ONE</i> , 2020, 15, e0244154.	2.5	3
106	Shark biology, ecology and management: introduction. <i>Marine and Freshwater Research</i> , 2011, 62, 517.	1.3	2
107	Sharks. , 2019, , 181-189.		0