

Shaun K Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

16,304
citations

30070

54
h-index

16650

123
g-index

130
all docs

130
docs citations

130
times ranked

11650
citing authors

#	ARTICLE	IF	CITATIONS
1	Global warming and recurrent mass bleaching of corals. <i>Nature</i> , 2017, 543, 373-377.	27.8	2,363
2	Spatial and temporal patterns of mass bleaching of corals in the Anthropocene. <i>Science</i> , 2018, 359, 80-83.	12.6	1,515
3	Climate-driven regime shift of a temperate marine ecosystem. <i>Science</i> , 2016, 353, 169-172.	12.6	951
4	The tropicalization of temperate marine ecosystems: climate-mediated changes in herbivory and community phase shifts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140846.	2.6	679
5	Predicting climate-driven regime shifts versus rebound potential in coral reefs. <i>Nature</i> , 2015, 518, 94-97.	27.8	607
6	Multiple disturbances and the global degradation of coral reefs: are reef fishes at risk or resilient?. <i>Global Change Biology</i> , 2006, 12, 2220-2234.	9.5	584
7	Dynamic fragility of oceanic coral reef ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8425-8429.	7.1	566
8	The future of hyperdiverse tropical ecosystems. <i>Nature</i> , 2018, 559, 517-526.	27.8	452
9	Bright spots among the world's coral reefs. <i>Nature</i> , 2016, 535, 416-419.	27.8	394
10	Effects Of Climate-Induced Coral Bleaching On Coral-Reef Fishes – Ecological And Economic Consequences. <i>Oceanography and Marine Biology</i> , 2008, , 251-296.	1.0	351
11	Lag Effects in the Impacts of Mass Coral Bleaching on Coral Reef Fish, Fisheries, and Ecosystems. <i>Conservation Biology</i> , 2007, 21, 1291-1300.	4.7	336
12	Critical thresholds and tangible targets for ecosystem-based management of coral reef fisheries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17230-17233.	7.1	277
13	Recovery potential of the world's coral reef fishes. <i>Nature</i> , 2015, 520, 341-344.	27.8	267
14	Linking Social and Ecological Systems to Sustain Coral Reef Fisheries. <i>Current Biology</i> , 2009, 19, 206-212.	3.9	257
15	Loss of coral reef growth capacity to track future increases in sea level. <i>Nature</i> , 2018, 558, 396-400.	27.8	250
16	Global Human Footprint on the Linkage between Biodiversity and Ecosystem Functioning in Reef Fishes. <i>PLoS Biology</i> , 2011, 9, e1000606.	5.6	249
17	Habitat utilization by coral reef fish: implications for specialists vs. generalists in a changing environment. <i>Journal of Animal Ecology</i> , 2008, 77, 220-228.	2.8	220
18	Climate Warming, Marine Protected Areas and the Ocean-Scale Integrity of Coral Reef Ecosystems. <i>PLoS ONE</i> , 2008, 3, e3039.	2.5	220

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19	Changes in Biodiversity and Functioning of Reef Fish Assemblages following Coral Bleaching and Coral Loss. <i>Diversity</i> , 2011, 3, 424-452.	1.7	213
20	Relationships between structural complexity, coral traits, and reef fish assemblages. <i>Coral Reefs</i> , 2017, 36, 561-575.	2.2	210
21	Seabirds enhance coral reef productivity and functioning in the absence of invasive rats. <i>Nature</i> , 2018, 559, 250-253.	27.8	205
22	Extinction vulnerability of coral reef fishes. <i>Ecology Letters</i> , 2011, 14, 341-348.	6.4	201
23	Gravity of human impacts mediates coral reef conservation gains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6116-E6125.	7.1	185
24	Social environmental drivers inform strategic management of coral reefs in the Anthropocene. <i>Nature Ecology and Evolution</i> , 2019, 3, 1341-1350.	7.8	175
25	Importance of live coral habitat for reef fishes. <i>Reviews in Fish Biology and Fisheries</i> , 2014, 24, 89-126.	4.9	173
26	Reef degradation and the loss of critical ecosystem goods and services provided by coral reef fishes. <i>Current Opinion in Environmental Sustainability</i> , 2014, 7, 37-43.	6.3	169
27	Critical swimming speeds of late-stage coral reef fish larvae: variation within species, among species and between locations. <i>Marine Biology</i> , 2005, 147, 1201-1212.	1.5	148
28	Too hot to handle: Unprecedented seagrass death driven by marine heatwave in a World Heritage Area. <i>Global Change Biology</i> , 2020, 26, 3525-3538.	9.5	139
29	Unprecedented Mass Bleaching and Loss of Coral across 12° of Latitude in Western Australia in 2010-11. <i>PLoS ONE</i> , 2012, 7, e51807.	2.5	135
30	Accelerating Tropicalization and the Transformation of Temperate Seagrass Meadows. <i>BioScience</i> , 2016, 66, 938-948.	4.9	128
31	Gear-based fisheries management as a potential adaptive response to climate change and coral mortality. <i>Journal of Applied Ecology</i> , 2009, 46, 724-732.	4.0	119
32	A simple function for full subsets multiple regression in ecology with R. <i>Ecology and Evolution</i> , 2018, 8, 6104-6113.	1.9	109
33	Human Disruption of Coral Reef Trophic Structure. <i>Current Biology</i> , 2017, 27, 231-236.	3.9	105
34	Market access, population density, and socioeconomic development explain diversity and functional group biomass of coral reef fish assemblages. <i>Global Environmental Change</i> , 2012, 22, 399-406.	7.8	104
35	Habitat Associations of Juvenile Fish at Ningaloo Reef, Western Australia: The Importance of Coral and Algae. <i>PLoS ONE</i> , 2010, 5, e15185.	2.5	104
36	Subcontinental heat wave triggers terrestrial and marine, multi-taxa responses. <i>Scientific Reports</i> , 2018, 8, 13094.	3.3	101

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37	A critical analysis of the direct effects of dredging on fish. <i>Fish and Fisheries</i> , 2017, 18, 967-985.	5.3	99
38	Meeting fisheries, ecosystem function, and biodiversity goals in a human-dominated world. <i>Science</i> , 2020, 368, 307-311.	12.6	99
39	Recent Advances in Understanding the Effects of Climate Change on Coral Reefs. <i>Diversity</i> , 2016, 8, 12.	1.7	98
40	Herbivore cross-scale redundancy supports response diversity and promotes coral reef resilience. <i>Journal of Applied Ecology</i> , 2016, 53, 646-655.	4.0	96
41	Productive instability of coral reef fisheries after climate-driven regime shifts. <i>Nature Ecology and Evolution</i> , 2019, 3, 183-190.	7.8	86
42	Crucial knowledge gaps in current understanding of climate change impacts on coral reef fishes. <i>Journal of Experimental Biology</i> , 2010, 213, 894-900.	1.7	82
43	Temperature patterns and mechanisms influencing coral bleaching during the 2016 El Niño. <i>Nature Climate Change</i> , 2019, 9, 845-851.	18.8	81
44	Cross-scale Habitat Structure Drives Fish Body Size Distributions on Coral Reefs. <i>Ecosystems</i> , 2013, 16, 478-490.	3.4	79
45	Sea temperature shapes seasonal fluctuations in seaweed biomass within the Ningaloo coral reef ecosystem. <i>Limnology and Oceanography</i> , 2014, 59, 156-166.	3.1	77
46	Form and function of tropical macroalgal reefs in the Anthropocene. <i>Functional Ecology</i> , 2019, 33, 989-999.	3.6	76
47	Remote coral reefs can sustain high growth potential and may match future sea-level trends. <i>Scientific Reports</i> , 2015, 5, 18289.	3.3	73
48	Thermal stress induces persistently altered coral reef fish assemblages. <i>Global Change Biology</i> , 2019, 25, 2739-2750.	9.5	71
49	Trait structure and redundancy determine sensitivity to disturbance in marine fish communities. <i>Global Change Biology</i> , 2019, 25, 3424-3437.	9.5	68
50	Effect of Macroalgal Expansion and Marine Protected Areas on Coral Recovery Following a Climatic Disturbance. <i>Conservation Biology</i> , 2012, 26, 995-1004.	4.7	67
51	A comparison of visual and stereo-video based fish community assessment methods in tropical and temperate marine waters of Western Australia. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 337-350.	2.0	67
52	Effects of fisheries closure size, age, and history of compliance on coral reef fish communities in the western Indian Ocean. <i>Marine Ecology - Progress Series</i> , 2009, 396, 99-109.	1.9	64
53	Biodiversity increases ecosystem functions despite multiple stressors on coral reefs. <i>Nature Ecology and Evolution</i> , 2020, 4, 919-926.	7.8	62
54	Boom and bust of keystone structure on coral reefs. <i>Coral Reefs</i> , 2019, 38, 625-635.	2.2	60

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55	Changing role of coral reef marine reserves in a warming climate. <i>Nature Communications</i> , 2020, 11, 2000.	12.8	58
56	The state of Western Australia's coral reefs. <i>Coral Reefs</i> , 2019, 38, 651-667.	2.2	56
57	Macroalgal meadow habitats support fish and fisheries in diverse tropical seascapes. <i>Fish and Fisheries</i> , 2020, 21, 700-717.	5.3	56
58	Fish wariness is a more sensitive indicator to changes in fishing pressure than abundance, length or biomass. <i>Ecological Applications</i> , 2017, 27, 1178-1189.	3.8	55
59	Maximum sustainable swimming speeds of late-stage larvae of nine species of reef fishes. <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 312, 171-186.	1.5	52
60	Habitat connectivity and complexity underpin fish community structure across a seascape of tropical macroalgae meadows. <i>Landscape Ecology</i> , 2018, 33, 1287-1300.	4.2	49
61	Perceptions of Australian marine protected area managers regarding the role, importance, and achievability of adaptation for managing the risks of climate change. <i>Ecology and Society</i> , 2014, 19, .	2.3	47
62	Early recovery dynamics of turbid coral reefs after recurring bleaching events. <i>Journal of Environmental Management</i> , 2020, 268, 110666.	7.8	47
63	Seabird nutrient subsidies alter patterns of algal abundance and fish biomass on coral reefs following a bleaching event. <i>Global Change Biology</i> , 2019, 25, 2619-2632.	9.5	45
64	Drivers and predictions of coral reef carbonate budget trajectories. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162533.	2.6	43
65	Gradients of disturbance and environmental conditions shape coral community structure for south-eastern Indian Ocean reefs. <i>Diversity and Distributions</i> , 2018, 24, 605-620.	4.1	43
66	Ecosystem regime shifts disrupt trophic structure. <i>Ecological Applications</i> , 2018, 28, 191-200.	3.8	43
67	Nutritional value of detritus and algae in blenny territories on the Great Barrier Reef. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 271, 155-169.	1.5	40
68	Relative and combined effects of habitat and fishing on reef fish communities across a limited fishing gradient at Ningaloo. <i>Marine Environmental Research</i> , 2012, 81, 1-11.	2.5	37
69	Large geographic variability in the resistance of corals to thermal stress. <i>Global Ecology and Biogeography</i> , 2020, 29, 2229-2247.	5.8	36
70	Dynamic Stability of Coral Reefs on the West Australian Coast. <i>PLoS ONE</i> , 2013, 8, e69863.	2.5	36
71	Seasonal changes in habitat structure underpin shifts in macroalgae-associated tropical fish communities. <i>Marine Biology</i> , 2014, 161, 2597-2607.	1.5	35
72	Diet of finfish targeted by fishers in North West Australia and the implications for trophic cascades. <i>Environmental Biology of Fishes</i> , 2011, 91, 71-85.	1.0	34

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73	Integrating connectivity science and spatial conservation management of coral reefs in north-west Australia. <i>Journal for Nature Conservation</i> , 2013, 21, 163-172.	1.8	34
74	Design Factors and Socioeconomic Variables Associated with Ecological Responses to Fishery Closures in the Western Indian Ocean. <i>Coastal Management</i> , 2011, 39, 412-424.	2.0	33
75	Visual versus video methods for estimating reef fish biomass. <i>Ecological Indicators</i> , 2018, 85, 146-152.	6.3	33
76	Abiotic and biotic controls on coral recovery 16 years after mass bleaching. <i>Coral Reefs</i> , 2019, 38, 1255-1265.	2.2	31
77	Distribution and drivers of coral disease at Ningaloo reef, Indian Ocean. <i>Marine Ecology - Progress Series</i> , 2011, 433, 75-84.	1.9	28
78	Habitat and fishing control grazing potential on coral reefs. <i>Functional Ecology</i> , 2020, 34, 240-251.	3.6	27
79	Increased connectivity and depth improve the effectiveness of marine reserves. <i>Global Change Biology</i> , 2021, 27, 3432-3447.	9.5	27
80	Specialization within a shifting habitat mosaic underpins the seasonal abundance of a tropical fish. <i>Ecosphere</i> , 2016, 7, e01212.	2.2	26
81	Climatic conditions and nursery habitat quality provide indicators of reef fish recruitment strength. <i>Limnology and Oceanography</i> , 2017, 62, 1868-1880.	3.1	26
82	Uncovering drivers of juvenile coral density following mass bleaching. <i>Coral Reefs</i> , 2019, 38, 637-649.	2.2	26
83	Knowledge Gaps in the Biology, Ecology, and Management of the Pacific Crown-of-Thorns Sea Star <i>Acanthaster</i> sp. on Australia's Great Barrier Reef. <i>Biological Bulletin</i> , 2021, 241, 330-346.	1.8	25
84	Climatic forcing and larval dispersal capabilities shape the replenishment of fishes and their habitats forming biota on a tropical coral reef. <i>Ecology and Evolution</i> , 2018, 8, 1918-1928.	1.9	24
85	Identifying sources of organic matter in sediments from a detritivorous coral reef fish territory. <i>Organic Geochemistry</i> , 2001, 32, 1257-1269.	1.8	23
86	Localised hydrodynamics influence vulnerability of coral communities to environmental disturbances. <i>Coral Reefs</i> , 2017, 36, 861-872.	2.2	23
87	Sea cucumbers in the Seychelles: effects of marine protected areas on high-value species. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2013, 23, 418-428.	2.0	21
88	Scleractinian coral communities of the inner Seychelles 10 years after the 1998 mortality event. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2014, 24, 667-679.	2.0	21
89	Demonstrating multiple benefits from periodically harvested fisheries closures. <i>Journal of Applied Ecology</i> , 2018, 55, 1102-1113.	4.0	20
90	Comparing five methods for quantifying abundance and diversity of fish assemblages in seagrass habitat. <i>Ecological Indicators</i> , 2021, 124, 107415.	6.3	20

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91	Climate-induced increases in micronutrient availability for coral reef fisheries. <i>One Earth</i> , 2022, 5, 98-108.	6.8	20
92	Management strategies to minimize the dredging impacts of coastal development on fish and fisheries. <i>Conservation Letters</i> , 2018, 11, e12572.	5.7	18
93	Cross-shelf Heterogeneity of Coral Assemblages in Northwest Australia. <i>Diversity</i> , 2019, 11, 15.	1.7	18
94	Influence of nursery microhabitats on the future abundance of a coral reef fish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160903.	2.6	17
95	Harnessing fishery-independent indicators to aid management of data-poor fisheries: weighing habitat and fishing effects. <i>Ecosphere</i> , 2016, 7, e01362.	2.2	17
96	Assessing coral health and disease from digital photographs and in situ surveys. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 18.	2.7	16
97	Regime shifts shorten food chains for mesopredators with potential sublethal effects. <i>Functional Ecology</i> , 2018, 32, 820-830.	3.6	16
98	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
99	The Status of Coral Reef Fish Assemblages in the Chagos Archipelago, with Implications for Protected Area Management and Climate Change. <i>Coral Reefs of the World</i> , 2013, , 253-270.	0.7	16
100	Consumption of tabular acroporid corals by reef fishes: a comparison with plant-herbivore interactions. <i>Functional Ecology</i> , 2012, 26, 307-316.	3.6	15
101	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
102	The contribution of macroalgae-associated fishes to small-scale tropical reef fisheries. <i>Fish and Fisheries</i> , 2022, 23, 847-861.	5.3	11
103	Effects of climate change on coral reef fishes. , 0, , 127-134.		10
104	Habitat Selectivity and Reliance on Live Corals for Indo-Pacific Hawkfishes (Family: Cirrhitidae). <i>PLoS ONE</i> , 2015, 10, e0138136.	2.5	10
105	Comparing two remote video survey methods for spatial predictions of the distribution and environmental niche suitability of demersal fishes. <i>Scientific Reports</i> , 2017, 7, 17633.	3.3	10
106	Nitrogen enrichment in macroalgae following mass coral mortality. <i>Coral Reefs</i> , 2021, 40, 767-776.	2.2	10
107	Coral larval recruitment in north-western Australia predicted by regional and local conditions. <i>Marine Environmental Research</i> , 2021, 168, 105318.	2.5	10
108	Causal drivers of climate-mediated coral reef regime shifts. <i>Ecosphere</i> , 2022, 13, .	2.2	10

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109	Differential use of shelter holes by sympatric species of blennies (Blennidae). <i>Marine Biology</i> , 2013, 160, 2405-2411.	1.5	8
110	Seascape Configuration and Fine-Scale Habitat Complexity Shape Parrotfish Distribution and Function across a Coral Reef Lagoon. <i>Diversity</i> , 2020, 12, 391.	1.7	8
111	Susceptibility of Butterflyfish to Habitat Disturbance. , 2013, , 226-245.		8
112	Estimating the role of three mesopredatory fishes in coral reef food webs at Ningaloo Reef, Western Australia. <i>Coral Reefs</i> , 2016, 35, 261-269.	2.2	7
113	Climate impacts alter fisheries productivity and turnover on coral reefs. <i>Coral Reefs</i> , 2022, 41, 921-935.	2.2	7
114	Measuring coral size-frequency distribution using stereo video technology, a comparison with in situ measurements. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 234.	2.7	6
115	Bleaching susceptibility of aquarium corals collected across northern Australia. <i>Coral Reefs</i> , 2020, 39, 663-673.	2.2	6
116	Isolated reefs support stable fish communities with high abundances of regionally fished species. <i>Ecology and Evolution</i> , 2021, 11, 4701-4718.	1.9	6
117	Size-specific recolonization success by coral-dwelling damselfishes moderates resilience to habitat loss. <i>Scientific Reports</i> , 2020, 10, 17016.	3.3	5
118	Zone specific trends in coral cover, genera and growth-forms in the World-Heritage listed Ningaloo Reef. <i>Marine Environmental Research</i> , 2020, 160, 105020.	2.5	5
119	Tropical larval and juvenile fish critical swimming speed (U-crit) and morphology data. <i>Scientific Data</i> , 2022, 9, 45.	5.3	5
120	The North-Western Margin of Australia. , 2019, , 303-331.		4
121	Coral Communities on Marginal High-Latitude Reefs in West Australian Marine Parks. <i>Diversity</i> , 2021, 13, 554.	1.7	4
122	Seabird diversity and biomass enhance cross-ecosystem nutrient subsidies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220195.	2.6	4
123	Between a Reef and a Hard Place: Capacity to Map the Next Coral Reef Catastrophe. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	3
124	Precision and cost-effectiveness of bioindicators to estimate nutrient regimes on coral reefs. <i>Marine Pollution Bulletin</i> , 2021, 170, 112606.	5.0	2
125	Efficacy of a starch-iodide swab technique to detect the illegal use of bleach in a Spiny Lobster (<i>Panulirus argus</i>) fishery. <i>Fisheries Research</i> , 2008, 90, 86-91.	1.7	1
126	Interactive effects of sediments and urchins on the composition and structure of tropical macroalgal assemblages. <i>Marine Biology</i> , 2021, 168, 1.	1.5	0

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127	The mesh size effect: counting long thin fish in seagrass. Fisheries Research, 2021, 242, 106019.	1.7	0