

Rick D Stuart-Smith

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

7,567
citations

81900

39
h-index

56724

83
g-index

107
all docs

107
docs citations

107
times ranked

9364
citing authors

#	ARTICLE	IF	CITATIONS
1	Global conservation outcomes depend on marine protected areas with five key features. <i>Nature</i> , 2014, 506, 216-220.	27.8	1,367
2	Integrating abundance and functional traits reveals new global hotspots of fish diversity. <i>Nature</i> , 2013, 501, 539-542.	27.8	445
3	Bright spots among the world's coral reefs. <i>Nature</i> , 2016, 535, 416-419.	27.8	394
4	Statistical solutions for error and bias in global citizen science datasets. <i>Biological Conservation</i> , 2014, 173, 144-154.	4.1	374
5	Species traits and climate velocity explain geographic range shifts in an ocean warming hotspot. <i>Ecology Letters</i> , 2015, 18, 944-953.	6.4	334
6	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018, 27, 760-786.	5.8	289
7	Global Human Footprint on the Linkage between Biodiversity and Ecosystem Functioning in Reef Fishes. <i>PLoS Biology</i> , 2011, 9, e1000606.	5.6	249
8	Ecosystem restructuring along the Great Barrier Reef following mass coral bleaching. <i>Nature</i> , 2018, 560, 92-96.	27.8	204
9	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
10	Biodiversity enhances reef fish biomass and resistance to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6230-6235.	7.1	178
11	Systematic global assessment of reef fish communities by the Reef Life Survey program. <i>Scientific Data</i> , 2014, 1, 140007.	5.3	169
12	A Standardised Vocabulary for Identifying Benthic Biota and Substrata from Underwater Imagery: The CATAMI Classification Scheme. <i>PLoS ONE</i> , 2015, 10, e0141039.	2.5	163
13	Thermal biases and vulnerability to warming in the world's marine fauna. <i>Nature</i> , 2015, 528, 88-92.	27.8	159
14	Ocean community warming responses explained by thermal affinities and temperature gradients. <i>Nature Climate Change</i> , 2019, 9, 959-963.	18.8	134
15	Climate resilience in marine protected areas and the "Protection Paradox". <i>Biological Conservation</i> , 2019, 236, 305-314.	4.1	131
16	Ecological effects of marine protected areas on rocky reef communities—a continental-scale analysis. <i>Marine Ecology - Progress Series</i> , 2009, 388, 51-62.	1.9	125
17	Resilience and signatures of tropicalization in protected reef fish communities. <i>Nature Climate Change</i> , 2014, 4, 62-67.	18.8	123
18	Toward a Coordinated Global Observing System for Seagrasses and Marine Macroalgae. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	123

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19	Thermal limits to the geographic distributions of shallow-water marine species. <i>Nature Ecology and Evolution</i> , 2017, 1, 1846-1852.	7.8	120
20	Fish body sizes change with temperature but not all species shrink with warming. <i>Nature Ecology and Evolution</i> , 2020, 4, 809-814.	7.8	103
21	Meeting fisheries, ecosystem function, and biodiversity goals in a human-dominated world. <i>Science</i> , 2020, 368, 307-311.	12.6	99
22	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021, 263, 109175.	4.1	96
23	Exploited reefs protected from fishing transform over decades into conservation features otherwise absent from seascapes. <i>Ecological Applications</i> , 2009, 19, 1967-1974.	3.8	86
24	New Approaches to Marine Conservation Through the Scaling Up of Ecological Data. <i>Annual Review of Marine Science</i> , 2016, 8, 435-461.	11.6	65
25	Assessing National Biodiversity Trends for Rocky and Coral Reefs through the Integration of Citizen Science and Scientific Monitoring Programs. <i>BioScience</i> , 2017, 67, 134-146.	4.9	64
26	Stability in temperate reef communities over a decadal time scale despite concurrent ocean warming. <i>Global Change Biology</i> , 2010, 16, 122-134.	9.5	61
27	Functional traits reveal early responses in marine reserves following protection from fishing. <i>Diversity and Distributions</i> , 2015, 21, 876-887.	4.1	61
28	Abundance and local-scale processes contribute to multi-phyla gradients in global marine diversity. <i>Science Advances</i> , 2017, 3, e1700419.	10.3	61
29	Quantifying wave exposure in shallow temperate reef systems: applicability of fetch models for predicting algal biodiversity. <i>Marine Ecology - Progress Series</i> , 2010, 417, 83-95.	1.9	59
30	A global assessment of the direct and indirect benefits of marine protected areas for coral reef conservation. <i>Diversity and Distributions</i> , 2019, 25, 9-20.	4.1	59
31	Species' thermal ranges predict changes in reef fish community structure during 8 years of extreme temperature variation. <i>Diversity and Distributions</i> , 2018, 24, 1036-1046.	4.1	55
32	The shape of abundance distributions across temperature gradients in reef fishes. <i>Ecology Letters</i> , 2019, 22, 685-696.	6.4	53
33	Distinguishing geographical range shifts from artefacts of detectability and sampling effort. <i>Diversity and Distributions</i> , 2015, 21, 13-22.	4.1	52
34	Establishing the ecological basis for conservation of shallow marine life using Reef Life Survey. <i>Biological Conservation</i> , 2020, 252, 108855.	4.1	52
35	Global baselines and benchmarks for fish biomass: comparing remote reefs and fisheries closures. <i>Marine Ecology - Progress Series</i> , 2019, 612, 167-192.	1.9	52
36	Trait similarity in reef fish faunas across the world's oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	50

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37	A new wave of marine evidence-based management: emerging challenges and solutions to transform monitoring, evaluating, and reporting. <i>ICES Journal of Marine Science</i> , 2018, 75, 941-952.	2.5	48
38	Reef Fishes at All Trophic Levels Respond Positively to Effective Marine Protected Areas. <i>PLoS ONE</i> , 2015, 10, e0140270.	2.5	46
39	Humans and seasonal climate variability threaten large-bodied coral reef fish with small ranges. <i>Nature Communications</i> , 2016, 7, 10491.	12.8	43
40	Fishing gear restrictions and biomass gains for coral reef fishes in marine protected areas. <i>Conservation Biology</i> , 2018, 32, 401-410.	4.7	43
41	Habitat loss and range shifts contribute to ecological generalization among reef fishes. <i>Nature Ecology and Evolution</i> , 2021, 5, 656-662.	7.8	40
42	Increasing turbidity significantly alters the diet of brown trout: a multi-year longitudinal study. <i>Journal of Fish Biology</i> , 2004, 65, 376-388.	1.6	39
43	Rapid declines across Australian fishery stocks indicate global sustainability targets will not be achieved without an expanded network of "no-fishing" reserves. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2018, 28, 1337-1350.	2.0	39
44	Biological interactions both facilitate and resist climate-related functional change in temperate reef communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170484.	2.6	38
45	Delineating reef fish trophic guilds with global gut content data synthesis and phylogeny. <i>PLoS Biology</i> , 2020, 18, e3000702.	5.6	38
46	Body size, reef area and temperature predict global reef fish species richness across spatial scales. <i>Global Ecology and Biogeography</i> , 2019, 28, 315-327.	5.8	37
47	A quantitative review of abundance-based species distribution models. <i>Ecography</i> , 2022, 2022, .	4.5	37
48	A shift in the habitat use pattern of a lentic galaxiid fish: an acute behavioural response to an introduced predator. <i>Environmental Biology of Fishes</i> , 2008, 82, 93-100.	1.0	33
49	Spatial patterns in impacts of fishing on temperate rocky reefs: Are fish abundance and mean size related to proximity to fisher access points?. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 365, 116-125.	1.5	29
50	Consistent multi-level trophic effects of marine reserve protection across northern New Zealand. <i>PLoS ONE</i> , 2017, 12, e0177216.	2.5	28
51	Loss of native rocky reef biodiversity in Australian metropolitan embayments. <i>Marine Pollution Bulletin</i> , 2015, 95, 324-332.	5.0	27
52	Broad-scale impacts of salmon farms on temperate macroalgal assemblages on rocky reefs. <i>Marine Pollution Bulletin</i> , 2015, 98, 201-209.	5.0	26
53	The importance of sponges and mangroves in supporting fish communities on degraded coral reefs in Caribbean Panama. <i>PeerJ</i> , 2018, 6, e4455.	2.0	26
54	Out of sight, out of mind: Threats to the marine biodiversity of the Canary Islands (NE Atlantic Ocean). <i>Marine Pollution Bulletin</i> , 2014, 86, 9-18.	5.0	25

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55	New opportunities for conservation of handfishes (Family Brachionichthyidae) and other inconspicuous and threatened marine species through citizen science. <i>Biological Conservation</i> , 2017, 208, 174-182.	4.1	23
56	Research challenges to improve the management and conservation of subtropical reefs to tackle climate change threats. <i>Ecological Management and Restoration</i> , 2011, 12, e7-e10.	1.5	22
57	Pollution signature for temperate reef biodiversity is short and simple. <i>Marine Pollution Bulletin</i> , 2018, 130, 159-169.	5.0	22
58	Translating local benthic community structure to national biogenic reef habitat types. <i>Global Ecology and Biogeography</i> , 2017, 26, 1112-1125.	5.8	21
59	Disentangling the response of fishes to recreational fishing over 30 years within a fringing coral reef reserve network. <i>Biological Conservation</i> , 2019, 237, 514-524.	4.1	20
60	Fish heating tolerance scales similarly across individual physiology and populations. <i>Communications Biology</i> , 2021, 4, 264.	4.4	20
61	Taxonomic composition of mobile epifaunal invertebrate assemblages on diverse benthic microhabitats from temperate to tropical reefs. <i>Marine Ecology - Progress Series</i> , 2020, 640, 31-43.	1.9	20
62	The impact of an introduced predator on a threatened galaxiid fish is reduced by the availability of complex habitats. <i>Freshwater Biology</i> , 2007, 52, 1555-1563.	2.4	19
63	Globally consistent reef size spectra integrating fishes and invertebrates. <i>Ecology Letters</i> , 2021, 24, 572-579.	6.4	18
64	Biological trade-offs underpin coral reef ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2022, 6, 701-708.	7.8	18
65	Reef fish carbonate production assessments highlight regional variation in sedimentary significance. <i>Geology</i> , 2018, 46, 699-702.	4.4	17
66	Production of mobile invertebrate communities on shallow reefs from temperate to tropical seas. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201798.	2.6	16
67	The effects of turbidity and complex habitats on the feeding of a galaxiid fish are clear and simple. <i>Marine and Freshwater Research</i> , 2007, 58, 429.	1.3	15
68	Is fecundity the ultimate cause of female-biased size dimorphism in a dragon lizard?. <i>Journal of Zoology</i> , 2007, 273, 266-272.	1.7	15
69	Effects of urbanisation on macroalgae and sessile invertebrates in southeast Australian estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 205, 30-39.	2.1	15
70	Direct and indirect effects of heatwaves on a coral reef fishery. <i>Global Change Biology</i> , 2021, 27, 1214-1225.	9.5	14
71	High biomass and productivity of epifaunal invertebrates living amongst dead coral. <i>Marine Biology</i> , 2021, 168, 1.	1.5	14
72	Persistent thermally driven shift in the functional trait structure of herbivorous fishes: Evidence of top-down control on the rebound potential of temperate seaweed forests?. <i>Global Change Biology</i> , 2022, 28, 2296-2311.	9.5	14

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73	Cross-ocean patterns and processes in fish biodiversity on coral reefs through the lens of eDNA metabarcoding. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220162.	2.6	14
74	Small invertebrate consumers produce consistent size spectra across reef habitats and climatic zones. <i>Oikos</i> , 2021, 130, 156-170.	2.7	12
75	Species richness and identity both determine the biomass of global reef fish communities. <i>Nature Communications</i> , 2021, 12, 6875.	12.8	12
76	Conservation challenges for the most threatened family of marine bony fishes (handfishes: <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T</i>)	4.1	11
77	Maximizing regional biodiversity requires a mosaic of protection levels. <i>PLoS Biology</i> , 2021, 19, e3001195.	5.6	11
78	Establishing the Foundation for the Global Observing System for Marine Life. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	11
79	Nocturnal and diurnal feeding by <i>Galaxias auratus</i> , a lentic galaxiid fish. <i>Ecology of Freshwater Fish</i> , 2006, 15, 521-531.	1.4	10
80	Predicting the diet of coastal fishes at a continental scale based on taxonomy and body size. <i>Journal of Experimental Marine Biology and Ecology</i> , 2016, 480, 1-7.	1.5	10
81	Weaknesses in stock assessment modelling and management practices affect fisheries sustainability. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 2010-2016.	2.0	10
82	National-scale marine bioregions for the Southwest Pacific. <i>Marine Pollution Bulletin</i> , 2020, 150, 110710.	5.0	10
83	Effects of Pollution From Anthropogenic Point Sources on the Recruitment of Sessile Estuarine Reef Biota. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	9
84	Interactive responses of primary producers and grazers to pollution on temperate rocky reefs. <i>Environmental Pollution</i> , 2018, 237, 388-395.	7.5	8
85	Climate change: Large-scale abundance shifts in fishes. <i>Current Biology</i> , 2021, 31, R1445-R1447.	3.9	8
86	Anthropogenic disruptions to longstanding patterns of trophic-size structure in vertebrates. <i>Nature Ecology and Evolution</i> , 2022, 6, 684-692.	7.8	8
87	Size dimorphism in <i>Rankinia [Tympanocryptis] diemensis</i> (Family Agamidae): sex-specific patterns and geographic variation. <i>Biological Journal of the Linnean Society</i> , 2008, 94, 699-709.	1.6	6
88	An experimental assessment of impacts of pollution sources on sessile biota in a temperate urbanised estuary. <i>Marine Pollution Bulletin</i> , 2018, 133, 209-217.	5.0	6
89	Contributions of body size, habitat and taxonomy to predictions of temperate Australian fish diets. <i>Marine Ecology - Progress Series</i> , 2016, 545, 239-249.	1.9	6
90	A community and functional comparison of coral and reef fish assemblages between four decades of coastal urbanisation and thermal stress. <i>Ecology and Evolution</i> , 2022, 12, e8736.	1.9	6

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91	Community size structure varies with predatorâ€™ prey size relationships and temperature across Australian reefs. <i>Ecology and Evolution</i> , 2022, 12, e8789.	1.9	6
92	The potential of trait-based approaches to contribute to marine conservation. <i>Marine Policy</i> , 2015, 51, 148-150.	3.2	5
93	Reef communities show predictable undulations in linear abundance size spectra from copepods to sharks. <i>Ecology Letters</i> , 2021, 24, 2146-2154.	6.4	5
94	The awakening of invertebrates: The daily dynamics of fishes and mobile invertebrates at Rapa Nui's multiple use marine protected area. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 290-303.	2.0	4
95	Moving beyond trophic groups: evaluating fishingâ€™induced changes to temperate reef food webs. <i>Marine Ecology - Progress Series</i> , 2018, 587, 175-186.	1.9	4
96	Tropicalization of temperate reef fish communities facilitated by urchin grazing and diversity of thermal affinities. <i>Global Ecology and Biogeography</i> , 2022, 31, 995-1005.	5.8	4
97	Sea temperature and habitat effects on juvenile reef fishes along a tropicalizing coastline. <i>Diversity and Distributions</i> , 2022, 28, 1154-1170.	4.1	3
98	Prioritising conservation actions for extremely data-poor species: A risk assessment for one of the world's rarest marine fishes. <i>Biological Conservation</i> , 2022, 268, 109501.	4.1	2
99	Spatial compositional turnover varies with trophic level and body size in marine assemblages of microâ€™ and macroorganisms. <i>Global Ecology and Biogeography</i> , 2022, 31, 1556-1570.	5.8	2
100	Circumglobal distribution of fish environmental DNA in coral reefs. <i>ARPHA Conference Abstracts</i> , 0, 4, .	0.0	0
101	Endemic Handfish Species Threatened With Extinction. , 2021, , .		0