

Nicholas V C Polunin

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

11,886
citations

28274

55
h-index

26613

107
g-index

128
all docs

128
docs citations

128
times ranked

8672
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential fractionation of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ among fish tissues: implications for the study of trophic interactions. <i>Functional Ecology</i> , 1999, 13, 225-231.	3.6	821
2	Critical science gaps impede use of no-take fishery reserves. <i>Trends in Ecology and Evolution</i> , 2005, 20, 74-80.	8.7	673
3	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
4	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
5	Trophic cascades in benthic marine ecosystems: lessons for fisheries and protected-area management. <i>Environmental Conservation</i> , 2000, 27, 179-200.	1.3	420
6	Coral reef cascades and the indirect effects of predator removal by exploitation. <i>Ecology Letters</i> , 2004, 7, 410-416.	6.4	376
7	Are marine reserves effective in management of reef fisheries?. <i>Reviews in Fish Biology and Fisheries</i> , 1991, 1, 65-91.	4.9	347
8	Weak cross-species relationships between body size and trophic level belie powerful size-based trophic structuring in fish communities. <i>Journal of Animal Ecology</i> , 2001, 70, 934-944.	2.8	336
9	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
10	Recovery potential of the world's coral reef fishes. <i>Nature</i> , 2015, 520, 341-344.	27.8	267
11	Global Human Footprint on the Linkage between Biodiversity and Ecosystem Functioning in Reef Fishes. <i>PLoS Biology</i> , 2011, 9, e1000606.	5.6	249
12	Recent Region-wide Declines in Caribbean Reef Fish Abundance. <i>Current Biology</i> , 2009, 19, 590-595.	3.9	238
13	The Discovery of New Deep-Sea Hydrothermal Vent Communities in the Southern Ocean and Implications for Biogeography. <i>PLoS Biology</i> , 2012, 10, e1001234.	5.6	225
14	Effects of body size and environment on diet-tissue $\delta^{15}\text{N}$ fractionation in fishes. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 340, 1-10.	1.5	224
15	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
16	Climate Warming, Marine Protected Areas and the Ocean-Scale Integrity of Coral Reef Ecosystems. <i>PLoS ONE</i> , 2008, 3, e3039.	2.5	220
17	Extinction vulnerability of coral reef fishes. <i>Ecology Letters</i> , 2011, 14, 341-348.	6.4	201
18	Exploitation and habitat degradation as agents of change within coral reef fish communities. <i>Global Change Biology</i> , 2008, 14, 2796-2809.	9.5	194

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19	Trophodynamic linkage between river runoff and coastal fishery yield elucidated by stable isotope data in the Gulf of Lions (NW Mediterranean). <i>Oecologia</i> , 2004, 138, 325-332.	2.0	180
20	Phase shifts and the role of herbivory in the resilience of coral reefs. <i>Coral Reefs</i> , 2007, 26, 641-653.	2.2	169
21	Predicting the Vulnerability of Tropical Reef Fishes to Exploitation with Phylogenies and Life Histories. <i>Conservation Biology</i> , 1999, 13, 1466-1475.	4.7	167
22	Size structural change in lightly exploited coral reef fish communities: evidence for weak indirect effects. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 466-475.	1.4	163
23	Effect of temperature and ration size on carbon and nitrogen stable isotope trophic fractionation. <i>Functional Ecology</i> , 2007, 21, 356-362.	3.6	163
24	Impacts of predator depletion by fishing on the biomass and diversity of non-target reef fish communities. <i>Coral Reefs</i> , 1997, 16, 71-82.	2.2	160
25	Isotope trophic-step fractionation: a dynamic equilibrium model. <i>Journal of Animal Ecology</i> , 2003, 72, 608-617.	2.8	155
26	The effects of fishing on the diversity, biomass and trophic structure of Seychelles' reef fish communities. <i>Coral Reefs</i> , 1995, 14, 225-235.	2.2	151
27	Size-spectra as indicators of the effects of fishing on coral reef fish assemblages. <i>Coral Reefs</i> , 2005, 24, 118-124.	2.2	149
28	The behavioral ecology of three Indian Ocean surgeonfishes (<i>Acanthurus lineatus</i> , <i>A. leucosternon</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 of Fishes</i> , 1979, 4, 125-170.	1.0	136
29	Effects of body size and environment on diet-tissue $\delta^{13}\text{C}$ fractionation in fishes. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 352, 165-176.	1.5	123
30	Role of marine reserves in recruitment to reef fisheries: A metapopulation model. <i>Biological Conservation</i> , 1995, 71, 197-204.	4.1	115
31	Tissue and fixative dependent shifts of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in preserved ecological material. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2587-2592.	1.5	115
32	Seychelles' marine protected areas: Comparative structure and status of reef fish communities. <i>Biological Conservation</i> , 1996, 75, 201-209.	4.1	106
33	The Decomposition of Emergent Macrophytes in Fresh Water. <i>Advances in Ecological Research</i> , 1984, 14, 115-166.	2.7	97
34	Using informal knowledge to infer human-induced rarity of a conspicuous reef fish. <i>Animal Conservation</i> , 2004, 7, 365-374.	2.9	97
35	Habitat correlates of the distribution and biomass of Seychelles' reef fishes. <i>Environmental Biology of Fishes</i> , 1996, 46, 15-25.	1.0	92
36	Algal food supply and grazer demand in a very productive coral-reef zone. <i>Journal of Experimental Marine Biology and Ecology</i> , 1992, 164, 1-15.	1.5	90

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37	Declining reliance on marine resources in remote South Pacific societies: ecological versus socio-economic drivers. <i>Coral Reefs</i> , 2007, 26, 997-1008.	2.2	89
38	Partitioning among grazers of food resources within damselfish territories on a coral reef. <i>Journal of Experimental Marine Biology and Ecology</i> , 1989, 125, 145-169.	1.5	85
39	Differences between protected and unprotected reefs of the western Caribbean in attributes preferred by dive tourists. <i>Environmental Conservation</i> , 2000, 27, 382-391.	1.3	83
40	Reflecting on the next generation of models for community-based natural resources management. <i>Environmental Conservation</i> , 2010, 37, 1-4.	1.3	83
41	Ecological correlates of foraging periodicity in herbivorous reef fishes of the Coral Sea. <i>Journal of Experimental Marine Biology and Ecology</i> , 1989, 126, 1-20.	1.5	79
42	Influence of instantaneous variation on estimates of coral reef fish populations and communities. <i>Marine Ecology - Progress Series</i> , 2007, 340, 221-234.	1.9	78
43	Reef flattening effects on total richness and species responses in the Caribbean. <i>Journal of Animal Ecology</i> , 2015, 84, 1678-1689.	2.8	74
44	Coral mortality versus structural collapse as drivers of corallivorous butterflyfish decline. <i>Biodiversity and Conservation</i> , 2009, 18, 3325-3336.	2.6	70
45	Transitional states in marine fisheries: adapting to predicted global change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3753-3763.	4.0	69
46	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
47	The importance of quantifying inherent variability when interpreting stable isotope field data. <i>Oecologia</i> , 2008, 155, 227-235.	2.0	64
48	Finfish disappearances around Bohol, Philippines inferred from traditional ecological knowledge. <i>Environmental Conservation</i> , 2009, 36, 235-244.	1.3	64
49	Unusual stable isotope fractionation patterns observed for fish host-parasite trophic relationships. <i>Journal of Fish Biology</i> , 2001, 59, 494-503.	1.6	62
50	Insights into fish host-parasite trophic relationships revealed by stable isotope analysis. <i>Diseases of Aquatic Organisms</i> , 2002, 52, 77-86.	1.0	61
51	Long-term changes in the trophic level of western Mediterranean fishery and aquaculture landings. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003, 60, 222-235.	1.4	61
52	Identifying Reefs of Hope and Hopeful Actions: Contextualizing Environmental, Ecological, and Social Parameters to Respond Effectively to Climate Change. <i>Conservation Biology</i> , 2009, 23, 662-671.	4.7	61
53	Biased underwater visual census biomass estimates for target-species in tropical reef fisheries. <i>Journal of Fish Biology</i> , 1995, 47, 733-736.	1.6	60
54	Varying responses of herbivorous and invertebrate-feeding fishes to macroalgal reduction on a coral reef. <i>Coral Reefs</i> , 1999, 18, 195-203.	2.2	60

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55	Predicting indirect effects of fishing in Mediterranean rocky littoral communities using a dynamic simulation model. <i>Ecological Modelling</i> , 2004, 172, 249-267.	2.5	59
56	Social networks and fishers’ behavior: exploring the links between information flow and fishing success in the Northumberland lobster fishery. <i>Ecology and Society</i> , 2014, 19, .	2.3	59
57	Spatial Differences in East Scotia Ridge Hydrothermal Vent Food Webs: Influences of Chemistry, Microbiology and Predation on Trophodynamics. <i>PLoS ONE</i> , 2013, 8, e65553.	2.5	59
58	Contrasts in algal food processing among five herbivorous coral-reef fishes. <i>Journal of Fish Biology</i> , 1995, 47, 455-465.	1.6	57
59	Accounting for detectability in reef-fish biodiversity estimates. <i>Marine Ecology - Progress Series</i> , 2008, 367, 249-260.	1.9	56
60	Hierarchical drivers of reef-fish metacommunity structure. <i>Ecology</i> , 2009, 90, 252-264.	3.2	54
61	Interdisciplinarity in the environmental sciences: barriers and frontiers. <i>Environmental Conservation</i> , 2010, 37, 464-477.	1.3	53
62	Comparative size and composition of yield from six Fijian reef fisheries. <i>Journal of Fish Biology</i> , 1995, 46, 28-46.	1.6	51
63	Detection heterogeneity in underwater visualâ€census data. <i>Journal of Fish Biology</i> , 2008, 73, 1748-1763.	1.6	48
64	Efficient uptake of algal production by a single resident herbivorous fish on the reef. <i>Journal of Experimental Marine Biology and Ecology</i> , 1988, 123, 61-76.	1.5	44
65	Planktivorous damselfish support significant nitrogen and phosphorus fluxes to Mediterranean reefs. <i>Marine Biology</i> , 2006, 148, 1089-1099.	1.5	43
66	Application of nitrogen stable isotope analysis in sizeâ€based marine food web and macroecological research. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1673-1680.	1.5	43
67	Comparative assessment of stakeholder management in traditional Fijian fishing-grounds. <i>Environmental Conservation</i> , 2000, 27, 291-299.	1.3	42
68	MPA policy: What lies behind the science?. <i>Marine Policy</i> , 2013, 37, 3-10.	3.2	42
69	Trophodynamics and functional feeding groups of North Sea fauna: a combined stable isotope and fatty acid approach. <i>Biogeochemistry</i> , 2013, 113, 189-212.	3.5	42
70	Assessment of fish trophic status and relationships by stable isotope data in the coral reef lagoon of New Caledonia, southwest Pacific. <i>Aquatic Living Resources</i> , 2008, 21, 1-12.	1.2	42
71	Tracking seasonal changes in North Sea zooplankton trophic dynamics using stable isotopes. <i>Biogeochemistry</i> , 2013, 113, 167-187.	3.5	41
72	Patterns of Coral-Reef Finfish Species Disappearances Inferred from Fishersâ€™ Knowledge in Global Epicentre of Marine Shorefish Diversity. <i>PLoS ONE</i> , 2016, 11, e0155752.	2.5	40

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73	Temporal focusing of nitrogen release by a periodically feeding herbivorous reef fish. <i>Journal of Experimental Marine Biology and Ecology</i> , 1987, 111, 285-296.	1.5	39
74	Steeper biomass spectra of demersal fish communities after trawler exclusion in Sicily. <i>ICES Journal of Marine Science</i> , 2009, 66, 195-202.	2.5	38
75	Scale-dependant control of motile epifaunal community structure along a coral reef fishing gradient. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 278, 1-29.	1.5	36
76	$\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ elucidation of size-structured food webs in a Western Arabian Sea demersal trawl assemblage. <i>Marine Ecology - Progress Series</i> , 2008, 353, 55-63.	1.9	36
77	Structure and dynamics of food webs in the water column on shelf and slope grounds of the western Mediterranean. <i>Journal of Marine Systems</i> , 2014, 138, 171-181.	2.1	36
78	Elucidating trophic pathways in benthic deep-sea assemblages of the Mid-Atlantic Ridge north and south of the Charlie-Gibbs Fracture Zone. <i>Marine Ecology - Progress Series</i> , 2012, 463, 89-103.	1.9	35
79	Elucidating the trophodynamics of four coral reef fishes of the Solomon Islands using $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$. <i>Coral Reefs</i> , 2010, 29, 785-792.	2.2	34
80	Prawn-associated gobies (Teleostei: Gobiidae) from the Seychelles, Western Indian Ocean: systematics and ecology. <i>Journal of Zoology</i> , 1977, 183, 63-101.	1.7	33
81	Linking regional variation of epibiotic bacterial diversity and trophic ecology in a new species of Kiwaidae (Decapoda, Anomura) from East Scotia Ridge (Antarctica) hydrothermal vents. <i>MicrobiologyOpen</i> , 2015, 4, 136-150.	3.0	32
82	Methodological uncertainty in resource mixing models for generalist fishes. <i>Oecologia</i> , 2012, 169, 1083-1093.	2.0	31
83	Estimating contributions of pelagic and benthic pathways to consumer production in coupled marine food webs. <i>Journal of Animal Ecology</i> , 2019, 88, 405-415.	2.8	30
84	Relationships between catch and effort in Fijian multispecies reef fisheries subject to different levels of exploitation. <i>Fisheries Management and Ecology</i> , 1995, 2, 89-101.	2.0	28
85	Mapping inshore fisheries: Comparing observed and perceived distributions of pot fishing activity in Northumberland. <i>Marine Policy</i> , 2015, 51, 173-181.	3.2	27
86	The Creation of the Chagos Marine Protected Area. <i>Advances in Marine Biology</i> , 2014, 69, 79-127.	1.4	26
87	Daily carbon, nitrogen and phosphorus budgets for the Mediterranean planktivorous damselfish <i>Chromis chromis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 352, 378-391.	1.5	24
88	No-trawl area impacts: perceptions, compliance and fish abundances. <i>Environmental Conservation</i> , 2012, 39, 237-247.	1.3	23
89	Are the scientific foundations of temperate marine reserves too warm and hard?. <i>Environmental Conservation</i> , 2012, 39, 199-203.	1.3	23
90	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

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91	The birds and the seas: body size reconciles differences in the abundance–occupancy relationship across marine and terrestrial vertebrates. <i>Oikos</i> , 2011, 120, 537-549.	2.7	20
92	Polar compounds preclude mathematical lipid correction of carbon stable isotopes in deep-water sharks. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017, 494, 69-74.	1.5	17
93	Prevalence of pelagic dependence among coral reef predators across an atoll seascape. <i>Journal of Animal Ecology</i> , 2019, 88, 1564-1574.	2.8	15
94	Fauna of the Kemp Caldera and its upper bathyal hydrothermal vents (South Sandwich Arc.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T</i>	2.4	15
95	The Mediterranean: marine protected areas and the recovery of a large marine ecosystem. <i>Environmental Conservation</i> , 2000, 27, 95-97.	1.3	13
96	Territoriality as a Driver of Fishers' Spatial Behavior in the Northumberland Lobster Fishery. <i>Society and Natural Resources</i> , 2013, 26, 491-505.	1.9	13
97	Diverging Strategies to Planning an Ecologically Coherent Network of MPAs in the North Sea. <i>Advances in Marine Biology</i> , 2014, 69, 325-370.	1.4	12
98	Bali Barat: An Indonesian marine protected area and its resources. <i>Biological Conservation</i> , 1983, 25, 171-191.	4.1	11
99	Marine Genetic Resources™ and the Potential Role of Protected Areas in Conserving Them. <i>Environmental Conservation</i> , 1983, 10, 31-41.	1.3	11
100	High variability in spatial and temporal size-based trophodynamics of deep-sea fishes from the Mid-Atlantic Ridge elucidated by stable isotopes. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 98, 412-420.	1.4	11
101	Low efficiency of dietary carbon and nitrogen conversion to growth in an herbivorous coral-reef fish in the wild. <i>Journal of Fish Biology</i> , 1989, 35, 869-879.	1.6	10
102	Stable isotopes reveal food web dynamics of a data-poor deep-sea island slope community. <i>Food Webs</i> , 2017, 10, 22-25.	1.2	10
103	Experimental potting impacts on common UK reef habitats in areas of high and low fishing pressure. <i>ICES Journal of Marine Science</i> , 2017, 74, 1648-1659.	2.5	10
104	Fish stable isotope community structure of a Bahamian coral reef. <i>Marine Biology</i> , 2019, 166, 1.	1.5	10
105	Spatial and temporal changes in pot-fishing effort and habitat use. <i>ICES Journal of Marine Science</i> , 2017, 74, 2201-2212.	2.5	9
106	Effects of the freshwater gastropod <i>Planorbis carinatus</i> on reed (<i>Phragmites australis</i>) litter microbial activity in an experimental system. <i>Freshwater Biology</i> , 1982, 12, 547-552.	2.4	7
107	Comparison of three methods for quantifying topographic complexity on rocky shores. <i>Marine Environmental Research</i> , 2010, 69, 143-151.	2.5	7
108	Multi-trophic markers illuminate the understanding of the functioning of a remote, low coral cover Marquesan coral reef food web. <i>Scientific Reports</i> , 2021, 11, 20950.	3.3	7

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109	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
110	The importance of oceanic atoll lagoons for coral reef predators. <i>Marine Biology</i> , 2020, 167, 1.	1.5	6
111	5th International Conference on Environmental Future: climate change and the future state of the world's aquatic ecosystems. <i>Environmental Conservation</i> , 2002, 29, 1-2.	1.3	5
112	An Overview of Spatial Management and Marine Protected Areas in the East China Sea. <i>Coastal Management</i> , 2008, 36, 443-457.	2.0	5
113	Diving Reconnaissance of 27 Western Indian Ocean Coral Reefs. <i>Environmental Conservation</i> , 1974, 1, 71-72.	1.3	4
114	Devastation of a fringing coral reef by <i>Acanthaster</i> . <i>Nature</i> , 1974, 249, 589-590.	27.8	3
115	Trends and global prospects of the Earth's aquatic ecosystems. , 0, , 353-365.		3
116	Seasonal variation in seston and organic matter accumulation in a sheltered fenland pond. <i>Hydrobiologia</i> , 1982, 94, 155-162.	2.0	2
117	INTRODUCTION: Climate, people, fisheries and aquatic ecosystems. , 0, , 1-16.		2
118	A new generation of <i>Environmental Conservation</i>. <i>Environmental Conservation</i> , 1996, 23, 1-1.	1.3	1
119	Environmental information and children: the big and the small. <i>Environmental Conservation</i> , 1996, 23, 103-104.	1.3	1
120	Marine conservation in the Seychelles. <i>Biological Conservation</i> , 1972, 4, 227-228.	4.1	0
121	International Wetlands Conference, Held at the Indian National Science Academy, New Delhi, India, During 10â€“17 September 1980. <i>Environmental Conservation</i> , 1981, 8, 75-75.	1.3	0
122	Important Prospect: Meeting on the Ecological Effects of Rising Temperature on Aquatic Organisms, to be held in the Department of Biological Sciences and St Cuthbert's Society, University of Durham, Durham, England, UK, on 4â€“5 January 1994. <i>Environmental Conservation</i> , 1993, 20, 183-183.	1.3	0
123	Ecology and Conservation of Southeast Asian Marine and Freshwater Environments including Wetlands. <i>Biodiversity and Conservation</i> , 1997, 6, 897-898.	2.6	0