

# Terry P Hughes

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

57,668  
citations

7096

78  
h-index

20358

116  
g-index

121  
all docs

121  
docs citations

121  
times ranked

34887  
citing authors

#	ARTICLE	IF	CITATIONS
1	A safe operating space for humanity. <i>Nature</i> , 2009, 461, 472-475.	27.8	8,638
2	Historical Overfishing and the Recent Collapse of Coastal Ecosystems. <i>Science</i> , 2001, 293, 629-637.	12.6	5,242
3	Planetary Boundaries: Exploring the Safe Operating Space for Humanity. <i>Ecology and Society</i> , 2009, 14, .	2.3	3,867
4	Climate Change, Human Impacts, and the Resilience of Coral Reefs. <i>Science</i> , 2003, 301, 929-933.	12.6	3,124
5	Confronting the coral reef crisis. <i>Nature</i> , 2004, 429, 827-833.	27.8	2,695
6	Catastrophes, Phase Shifts, and Large-Scale Degradation of a Caribbean Coral Reef. <i>Science</i> , 1994, 265, 1547-1551.	12.6	2,413
7	Global warming and recurrent mass bleaching of corals. <i>Nature</i> , 2017, 543, 373-377.	27.8	2,363
8	Social-Ecological Resilience to Coastal Disasters. <i>Science</i> , 2005, 309, 1036-1039.	12.6	2,002
9	Global Trajectories of the Long-Term Decline of Coral Reef Ecosystems. <i>Science</i> , 2003, 301, 955-958.	12.6	1,634
10	Spatial and temporal patterns of mass bleaching of corals in the Anthropocene. <i>Science</i> , 2018, 359, 80-83.	12.6	1,515
11	Coral reefs in the Anthropocene. <i>Nature</i> , 2017, 546, 82-90.	27.8	1,329
12	Phase Shifts, Herbivory, and the Resilience of Coral Reefs to Climate Change. <i>Current Biology</i> , 2007, 17, 360-365.	3.9	1,239
13	Global warming transforms coral reef assemblages. <i>Nature</i> , 2018, 556, 492-496.	27.8	1,173
14	RECRUITMENT AND THE LOCAL DYNAMICS OF OPEN MARINE POPULATIONS. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1996, 27, 477-500.	6.7	1,048
15	Rising to the challenge of sustaining coral reef resilience. <i>Trends in Ecology and Evolution</i> , 2010, 25, 633-642.	8.7	872
16	Governance and the Capacity to Manage Resilience in Regional Social-Ecological Systems. <i>Ecology and Society</i> , 2006, 11, .	2.3	817
17	New paradigms for supporting the resilience of marine ecosystems. <i>Trends in Ecology and Evolution</i> , 2005, 20, 380-386.	8.7	781
18	ECOLOGY: Globalization, Roving Bandits, and Marine Resources. <i>Science</i> , 2006, 311, 1557-1558.	12.6	592

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19	Rebuilding marine life. <i>Nature</i> , 2020, 580, 39-51.	27.8	560
20	Social-ecological systems as complex adaptive systems: modeling and policy implications. <i>Environment and Development Economics</i> , 2013, 18, 111-132.	1.5	530
21	Multiple stressors on coral reefs: A long-term perspective. <i>Limnology and Oceanography</i> , 1999, 44, 932-940.	3.1	516
22	Regional-Scale Assembly Rules and Biodiversity of Coral Reefs. <i>Science</i> , 2001, 292, 1532-1535.	12.6	482
23	Navigating transformations in governance of Chilean marine coastal resources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16794-16799.	7.1	471
24	Population Dynamics and Life Histories of Foliose Corals. <i>Ecological Monographs</i> , 1985, 55, 141-166.	5.4	449
25	RECRUITMENT FAILURE, LIFE HISTORIES, AND LONG-TERM DECLINE OF CARIBBEAN CORALS. <i>Ecology</i> , 2000, 81, 2250-2263.	3.2	446
26	Building adaptive capacity to climate change in tropical coastal communities. <i>Nature Climate Change</i> , 2018, 8, 117-123.	18.8	416
27	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
28	ECOLOGY: Enhanced: Are U.S. Coral Reefs on the Slippery Slope to Slime?. <i>Science</i> , 2005, 307, 1725-1726.	12.6	393
29	Sleeping Functional Group Drives Coral-Reef Recovery. <i>Current Biology</i> , 2006, 16, 2434-2439.	3.9	388
30	Global warming impairs stock-recruitment dynamics of corals. <i>Nature</i> , 2019, 568, 387-390.	27.8	378
31	Population Dynamics Based on Individual Size Rather than Age: A General Model with a Reef Coral Example. <i>American Naturalist</i> , 1984, 123, 778-795.	2.1	357
32	Patterns of recruitment and abundance of corals along the Great Barrier Reef. <i>Nature</i> , 1999, 397, 59-63.	27.8	321
33	Looming Global-Scale Failures and Missing Institutions. <i>Science</i> , 2009, 325, 1345-1346.	12.6	317
34	Biodiversity hotspots, centres of endemism, and the conservation of coral reefs. <i>Ecology Letters</i> , 2002, 5, 775-784.	6.4	311
35	Living dangerously on borrowed time during slow, unrecognized regime shifts. <i>Trends in Ecology and Evolution</i> , 2013, 28, 149-155.	8.7	301
36	Do Corals Lie About Their Age? Some Demographic Consequences of Partial Mortality, Fission, and Fusion. <i>Science</i> , 1980, 209, 713-715.	12.6	296

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37	Reproductive Strategies of Modular Organisms: Comparative Studies of Reef- Building Corals. <i>Ecology</i> , 1996, 77, 950-963.	3.2	283
38	Navigating the transition to ecosystem-based management of the Great Barrier Reef, Australia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9489-9494.	7.1	275
39	Advancing sustainability through mainstreaming a social-ecological systems perspective. <i>Current Opinion in Environmental Sustainability</i> , 2015, 14, 144-149.	6.3	274
40	General Resilience to Cope with Extreme Events. <i>Sustainability</i> , 2012, 4, 3248-3259.	3.2	268
41	Herbivory on coral reefs: community structure following mass mortalities of sea urchins. <i>Journal of Experimental Marine Biology and Ecology</i> , 1987, 113, 39-59.	1.5	257
42	Linking Social and Ecological Systems to Sustain Coral Reef Fisheries. <i>Current Biology</i> , 2009, 19, 206-212.	3.9	257
43	Ecological memory modifies the cumulative impact of recurrent climate extremes. <i>Nature Climate Change</i> , 2019, 9, 40-43.	18.8	253
44	Multiscale regime shifts and planetary boundaries. <i>Trends in Ecology and Evolution</i> , 2013, 28, 389-395.	8.7	243
45	Coral reef diversity refutes the neutral theory of biodiversity. <i>Nature</i> , 2006, 440, 80-82.	27.8	234
46	Securing a Just Space for Small-Scale Fisheries in the Blue Economy. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	219
47	Community Structure and Diversity of Coral Reefs: The Role of History. <i>Ecology</i> , 1989, 70, 275-279.	3.2	215
48	Climate change, genotypic diversity and gene flow in reef-building corals. <i>Ecology Letters</i> , 2004, 7, 273-278.	6.4	214
49	Human activity selectively impacts the ecosystem roles of parrotfishes on coral reefs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1621-1629.	2.6	212
50	Managing resilience to reverse phase shifts in coral reefs. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 541-548.	4.0	199
51	Creation of a Gilded Trap by the High Economic Value of the Maine Lobster Fishery. <i>Conservation Biology</i> , 2011, 25, 904-912.	4.7	193
52	A LONG-TERM STUDY OF COMPETITION AND DIVERSITY OF CORALS. <i>Ecological Monographs</i> , 2004, 74, 179-210.	5.4	186
53	INDO-PACIFIC BIODIVERSITY OF CORAL REEFS: DEVIATIONS FROM A MID-DOMAIN MODEL. <i>Ecology</i> , 2003, 84, 2178-2190.	3.2	175
54	Coral reef conservation in the Anthropocene: Confronting spatial mismatches and prioritizing functions. <i>Biological Conservation</i> , 2019, 236, 604-615.	4.1	175

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55	Population Dynamics Based on Size or Age? A Reef-Coral Analysis. <i>American Naturalist</i> , 1987, 129, 818-829.	2.1	171
56	The evolutionary ecology of corals. <i>Trends in Ecology and Evolution</i> , 1992, 7, 292-295.	8.7	171
57	Climate change, ecosystems and abrupt change: science priorities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190105.	4.0	169
58	An experimental assessment of survival, re-attachment and fecundity of coral fragments. <i>Journal of Experimental Marine Biology and Ecology</i> , 1999, 235, 147-164.	1.5	165
59	Environmental and geometric constraints on Indo-Pacific coral reef biodiversity. <i>Ecology Letters</i> , 2005, 8, 643-651.	6.4	165
60	Recruitment Limitation, Mortality, and Population Regulation in Open Systems: A Case Study. <i>Ecology</i> , 1990, 71, 12-20.	3.2	161
61	Species Coexistence, Keystone Species, and Succession: A Sensitivity Analysis. <i>Ecology</i> , 1994, 75, 2204.	3.2	154
62	Algal blooms on coral reefs: What are the causes?. <i>Limnology and Oceanography</i> , 1999, 44, 1583-1586.	3.1	153
63	Coral communities are regionally enriched along an oceanic biodiversity gradient. <i>Nature</i> , 2004, 429, 867-870.	27.8	144
64	No-take areas, herbivory and coral reef resilience. <i>Trends in Ecology and Evolution</i> , 2007, 22, 1-3.	8.7	141
65	Call to protect all coral reefs. <i>Nature Climate Change</i> , 2013, 3, 528-530.	18.8	141
66	Community Structure of Corals and Reef Fishes at Multiple Scales. <i>Science</i> , 2005, 309, 1363-1365.	12.6	140
67	The Wicked Problem of China's Disappearing Coral Reefs. <i>Conservation Biology</i> , 2013, 27, 261-269.	4.7	126
68	Large-scale bleaching of corals on the Great Barrier Reef. <i>Ecology</i> , 2018, 99, 501-501.	3.2	122
69	Genetic differentiation, reproductive mode, and gene flow in the brooding coral <i>Pocillopora damicornis</i> along the Great Barrier Reef, Australia. <i>Marine Ecology - Progress Series</i> , 1997, 159, 175-187.	1.9	113
70	Skeletal density and growth form of corals. <i>Marine Ecology - Progress Series</i> , 1987, 35, 259-266.	1.9	110
71	Mitigation and adaptation in polycentric systems: sources of power in the pursuit of collective goals. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2017, 8, e479.	8.1	107
72	Competitive dominance by tabular corals: an experimental analysis of recruitment and survival of understorey assemblages. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 251, 117-132.	1.5	104

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73	Pulse-Driven Loss of Top-Down Control: The Critical-Rate Hypothesis. <i>Ecosystems</i> , 2008, 11, 226-237.	3.4	103
74	Biogeographical disparity in the functional diversity and redundancy of corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3084-3089.	7.1	98
75	Program on ecosystem change and society: an international research strategy for integrated social-ecological systems. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 134-138.	6.3	89
76	Faunal breaks and species composition of Indo-Pacific corals: the role of plate tectonics, environment and habitat distribution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130818.	2.6	87
77	Shifting base-lines, declining coral cover, and the erosion of reef resilience: comment on Sweatman et al. (2011). <i>Coral Reefs</i> , 2011, 30, 653-660.	2.2	86
78	Advancing Coral Reef Governance into the Anthropocene. <i>One Earth</i> , 2020, 2, 64-74.	6.8	83
79	Designing a blueprint for coral reef survival. <i>Biological Conservation</i> , 2021, 257, 109107.	4.1	82
80	Calcification, Storm Damage and Population Resilience of Tabular Corals under Climate Change. <i>PLoS ONE</i> , 2012, 7, e46637.	2.5	82
81	Assembly Rules of Reef Corals Are Flexible along a Steep Climatic Gradient. <i>Current Biology</i> , 2012, 22, 736-741.	3.9	81
82	Connectivity, regime shifts and the resilience of coral reefs. <i>Coral Reefs</i> , 2009, 28, 949-957.	2.2	79
83	Correlated evolution of sex and reproductive mode in corals (Anthozoa: Scleractinia). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 75-81.	2.6	79
84	Securing the future of the Great Barrier Reef. <i>Nature Climate Change</i> , 2015, 5, 508-511.	18.8	78
85	Adaptive Management of the Great Barrier Reef and the Grand Canyon World Heritage Areas. <i>Ambio</i> , 2007, 36, 586-592.	5.5	77
86	The Role of History in Community Dynamics: A Modelling Approach. <i>Ecology</i> , 1996, 77, 108-117.	3.2	74
87	Multiple feedbacks and the prevalence of alternate stable states on coral reefs. <i>Coral Reefs</i> , 2016, 35, 857-865.	2.2	74
88	Deficits in functional trait diversity following recovery on coral reefs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192628.	2.6	67
89	Off-reef transport of coral fragments at Lizard Island, Australia. <i>Marine Geology</i> , 1999, 157, 1-6.	2.1	66
90	Emergent properties in the responses of tropical corals to recurrent climate extremes. <i>Current Biology</i> , 2021, 31, 5393-5399.e3.	3.9	65

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91	Demographic Approaches to Community Dynamics: A Coral Reef Example. <i>Ecology</i> , 1996, 77, 2256-2260.	3.2	63
92	Climate engineering reconsidered. <i>Nature Climate Change</i> , 2014, 4, 527-529.	18.8	63
93	Save reefs to rescue all ecosystems. <i>Nature</i> , 2019, 573, 333-336.	27.8	59
94	Long-term shifts in the colony size structure of coral populations along the Great Barrier Reef. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201432.	2.6	58
95	Refugia under threat: Mass bleaching of coral assemblages in high-latitude eastern Australia. <i>Global Change Biology</i> , 2019, 25, 3918-3931.	9.5	56
96	Double Jeopardy and Global Extinction Risk in Corals and Reef Fishes. <i>Current Biology</i> , 2014, 24, 2946-2951.	3.9	47
97	Back-to-back coral bleaching events on isolated atolls in the Coral Sea. <i>Coral Reefs</i> , 2019, 38, 713-719.	2.2	44
98	Density-Dependent Dynamics of Soft Coral Aggregations: The Significance of Clonal Growth and Form. <i>Ecology</i> , 1996, 77, 1592-1599.	3.2	40
99	Local-regional species richness relationships are linear at very small to large scales in west-central Pacific corals. <i>Coral Reefs</i> , 2008, 27, 145-151.	2.2	39
100	Testing species abundance models: a new bootstrap approach applied to Indo-Pacific coral reefs. <i>Ecology</i> , 2009, 90, 3138-3149.	3.2	38
101	The population sizes and global extinction risk of reef-building coral species at biogeographic scales. <i>Nature Ecology and Evolution</i> , 2021, 5, 663-669.	7.8	36
102	AGGREGATION INFLUENCES CORAL SPECIES RICHNESS AT MULTIPLE SPATIAL SCALES. <i>Ecology</i> , 2007, 88, 170-177.	3.2	35
103	SCALE-DEPENDENT VARIATION IN CORAL COMMUNITY SIMILARITY ACROSS SITES, ISLANDS, AND ISLAND GROUPS. <i>Ecology</i> , 2007, 88, 1707-1715.	3.2	33
104	China's Degraded Environment Enters A New Normal. <i>Trends in Ecology and Evolution</i> , 2016, 31, 175-177.	8.7	33
105	Impacts of simulated overfishing on the territoriality of coral reef damselfish. <i>Marine Ecology - Progress Series</i> , 2006, 309, 255-262.	1.9	33
106	The spatial footprint and patchiness of large-scale disturbances on coral reefs. <i>Global Change Biology</i> , 2021, 27, 4825-4838.	9.5	26
107	A unified model explains commonness and rarity on coral reefs. <i>Ecology Letters</i> , 2017, 20, 477-486.	6.4	23
108	Community-level density dependence: an example from a shallow coral assemblage. <i>Ecology</i> , 2009, 90, 506-516.	3.2	21

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109	A critique of claims for negative impacts of Marine Protected Areas on fisheries. Ecological Applications, 2016, 26, 637-641.	3.8	20
110	Geographic ranges of reef corals (Cnidaria: Anthozoa: Scleractinia) in the Indo-Pacific. Ecology, 2013, 94, 1659-1659.	3.2	15
111	Coral Reef Biodiversity and Conservation. Science, 2002, 296, 1026-1028.	12.6	14
112	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. BioScience, 2020, 70, 1139-1144.	4.9	14
113	Spatial variance in abundance and occupancy of corals across broad geographic scales. Ecology, 2011, 92, 1282-1291.	3.2	8
114	Social-Ecological Resilience to Coastal Disasters. , 2018, , 151-159.		3
115	IV.8 Seascape Patterns and Dynamics of Coral Reefs. , 2009, , 482-487.		2
116	Detecting Regional Variation Using Meta-Analysis and Large-Scale Sampling: Latitudinal Patterns in Recruitment. Ecology, 2002, 83, 436.	3.2	2
117	Four. Marine Protected Areas, Marine Spatial Planning, and the Resilience of Marine Ecosystems. , 2014, , 98-141.		1