Terry P Hughes

List of Publications by Year
in descending order

117 papers	57,668 citations	7069 78 h-index	20900 115 g-index
121 all docs	121 docs citations	121 times ranked	34887 citing authors

#	Article	IF	Citations
1	A safe operating space for humanity. Nature, 2009, 461, 472-475.	13.7	8,638
2	Historical Overfishing and the Recent Collapse of Coastal Ecosystems. Science, 2001, 293, 629-637.	6.0	5,242
3	Planetary Boundaries: Exploring the Safe Operating Space for Humanity. Ecology and Society, 2009, 14, .	1.0	3,867
4	Climate Change, Human Impacts, and the Resilience of Coral Reefs. Science, 2003, 301, 929-933.	6.0	3,124
5	Confronting the coral reef crisis. Nature, 2004, 429, 827-833.	13.7	2,695
6	Catastrophes, Phase Shifts, and Large-Scale Degradation of a Caribbean Coral Reef. Science, 1994, 265, 1547-1551.	6.0	2,413
7	Global warming and recurrent mass bleaching of corals. Nature, 2017, 543, 373-377.	13.7	2,363
8	Social-Ecological Resilience to Coastal Disasters. Science, 2005, 309, 1036-1039.	6.0	2,002
9	Global Trajectories of the Long-Term Decline of Coral Reef Ecosystems. Science, 2003, 301, 955-958.	6.0	1,634
10	Spatial and temporal patterns of mass bleaching of corals in the Anthropocene. Science, 2018, 359, 80-83.	6.0	1,515
11	Coral reefs in the Anthropocene. Nature, 2017, 546, 82-90.	13.7	1,329
12	Phase Shifts, Herbivory, and the Resilience of Coral Reefs to Climate Change. Current Biology, 2007, 17, 360-365.	1.8	1,239
13	Global warming transforms coral reef assemblages. Nature, 2018, 556, 492-496.	13.7	1,173
14	RECRUITMENT AND THE LOCAL DYNAMICS OF OPEN MARINE POPULATIONS. Annual Review of Ecology, Evolution, and Systematics, 1996, 27, 477-500.	6.7	1,048
15	Rising to the challenge of sustaining coral reef resilience. Trends in Ecology and Evolution, 2010, 25, 633-642.	4.2	872
16	Governance and the Capacity to Manage Resilience in Regional Social-Ecological Systems. Ecology and Society, 2006, 11, .	1.0	817
17	New paradigms for supporting the resilience of marine ecosystems. Trends in Ecology and Evolution, 2005, 20, 380-386.	4.2	781
18	ECOLOGY: Globalization, Roving Bandits, and Marine Resources. Science, 2006, 311, 1557-1558.	6.0	592

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19	Rebuilding marine life. Nature, 2020, 580, 39-51.	13.7	560
20	Social-ecological systems as complex adaptive systems: modeling and policy implications. Environment and Development Economics, 2013, 18, 111-132.	1.3	530
21	Multiple stressors on coral reefs: A long â€term perspective. Limnology and Oceanography, 1999, 44, 932-940.	1.6	516
22	Regional-Scale Assembly Rules and Biodiversity of Coral Reefs. Science, 2001, 292, 1532-1535.	6.0	482
23	Navigating transformations in governance of Chilean marine coastal resources. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16794-16799.	3.3	471
24	Population Dynamics and Life Histories of Foliaceous Corals. Ecological Monographs, 1985, 55, 141-166.	2.4	449
25	RECRUITMENT FAILURE, LIFE HISTORIES, AND LONG-TERM DECLINE OF CARIBBEAN CORALS. Ecology, 2000, 81, 2250-2263.	1.5	446
26	Building adaptive capacity to climate change in tropical coastal communities. Nature Climate Change, 2018, 8, 117-123.	8.1	416
27	Adaptive management of the Great Barrier Reef: A globally significant demonstration of the benefits of networks of marine reserves. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18278-18285.	3.3	408
28	ECOLOGY: Enhanced: Are U.S. Coral Reefs on the Slippery Slope to Slime?. Science, 2005, 307, 1725-1726.	6.0	393
29	Sleeping Functional Group Drives Coral-Reef Recovery. Current Biology, 2006, 16, 2434-2439.	1.8	388
30	Global warming impairs stockâ€“recruitment dynamics of corals. Nature, 2019, 568, 387-390.	13.7	378
31	Population Dynamics Based on Individual Size Rather than Age: A General Model with a Reef Coral Example. American Naturalist, 1984, 123, 778-795.	1.0	357
32	Patterns of recruitment and abundance of corals along the Great Barrier Reef. Nature, 1999, 397, 59-63.	13.7	321
33	Looming Global-Scale Failures and Missing Institutions. Science, 2009, 325, 1345-1346.	6.0	317
34	Biodiversity hotspots, centres of endemicity, and the conservation of coral reefs. Ecology Letters, 2002, 5, 775-784.	3.0	311
35	Living dangerously on borrowed time during slow, unrecognized regime shifts. Trends in Ecology and Evolution, 2013, 28, 149-155.	4.2	301
36	Do Corals Lie About Their Age? Some Demographic Consequences of Partial Mortality, Fission, and Fusion. Science, 1980, 209, 713-715.	6.0	296

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37	Reproductive Strategies of Modular Organisms: Comparative Studies of Reef- Building Corals. Ecology, 1996, 77, 950-963.	1.5	283
38	Navigating the transition to ecosystem-based management of the Great Barrier Reef, Australia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9489-9494.	3.3	275
39	Advancing sustainability through mainstreaming a socialâ€“ecological systems perspective. Current Opinion in Environmental Sustainability, 2015, 14, 144-149.	3.1	274
40	General Resilience to Cope with Extreme Events. Sustainability, 2012, 4, 3248-3259.	1.6	268
41	Herbivory on coral reefs: community structure following mass mortalities of sea urchins. Journal of Experimental Marine Biology and Ecology, 1987, 113, 39-59.	0.7	257
42	Linking Social and Ecological Systems to Sustain Coral Reef Fisheries. Current Biology, 2009, 19, 206-212.	1.8	257
43	Ecological memory modifies the cumulative impact of recurrent climate extremes. Nature Climate Change, 2019, 9, 40-43.	8.1	253
44	Multiscale regime shifts and planetary boundaries. Trends in Ecology and Evolution, 2013, 28, 389-395.	4.2	243
45	Coral reef diversity refutes the neutral theory of biodiversity. Nature, 2006, 440, 80-82.	13.7	234
46	Securing a Just Space for Small-Scale Fisheries in the Blue Economy. Frontiers in Marine Science, 2019, 6, .	1.2	219
47	Community Structure and Diversity of Coral Reefs: The Role of History. Ecology, 1989, 70, 275-279.	1.5	215
48	Climate change, genotypic diversity and gene flow in reef-building corals. Ecology Letters, 2004, 7, 273-278.	3.0	214
49	Human activity selectively impacts the ecosystem roles of parrotfishes on coral reefs. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1621-1629.	1.2	212
50	Managing resilience to reverse phase shifts in coral reefs. Frontiers in Ecology and the Environment, 2013, 11, 541-548.	1.9	199
51	Creation of a Gilded Trap by the High Economic Value of the Maine Lobster Fishery. Conservation Biology, 2011, 25, 904-912.	2.4	193
52	A LONG-TERM STUDY OF COMPETITION AND DIVERSITY OF CORALS. Ecological Monographs, 2004, 74, 179-210.	2.4	186
53	INDO-PACIFIC BIODIVERSITY OF CORAL REEFS: DEVIATIONS FROM A MID-DOMAIN MODEL. Ecology, 2003, 84, 2178-2190.	1.5	175
54	Coral reef conservation in the Anthropocene: Confronting spatial mismatches and prioritizing functions. Biological Conservation, 2019, 236, 604-615.	1.9	175

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55	Population Dynamics Based on Size or Age? A Reef-Coral Analysis. American Naturalist, 1987, 129, 818-829.	1.0	171
56	The evolutionary ecology of corals. Trends in Ecology and Evolution, 1992, 7, 292-295.	4.2	171
57	Climate change, ecosystems and abrupt change: science priorities. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190105.	1.8	169
58	An experimental assessment of survival, re-attachment and fecundity of coral fragments. Journal of Experimental Marine Biology and Ecology, 1999, 235, 147-164.	0.7	165
59	Environmental and geometric constraints on Indo-Pacific coral reef biodiversity. Ecology Letters, 2005, 8, 643-651.	3.0	165
60	Recruitment Limitation, Mortality, and Population Regulation in Open Systems: A Case Study. Ecology, 1990, 71, 12-20.	1.5	161
61	Species Coexistence, Keystone Species, and Succession: A Sensitivity Analysis. Ecology, 1994, 75, 2204.	1.5	154
62	Algal blooms on coral reefs: What are the causes?. Limnology and Oceanography, 1999, 44, 1583-1586.	1.6	153
63	Coral communities are regionally enriched along an oceanic biodiversity gradient. Nature, 2004, 429, 867-870.	13.7	144
64	No-take areas, herbivory and coral reef resilience. Trends in Ecology and Evolution, 2007, 22, 1-3.	4.2	141
65	Call to protect all coral reefs. Nature Climate Change, 2013, 3, 528-530.	8.1	141
66	Community Structure of Corals and Reef Fishes at Multiple Scales. Science, 2005, 309, 1363-1365.	6.0	140
67	The Wicked Problem of China's Disappearing Coral Reefs. Conservation Biology, 2013, 27, 261-269.	2.4	126
68	Largeâ€scale bleaching of corals on the Great Barrier Reef. Ecology, 2018, 99, 501-501.	1.5	122
69	Genetic differentiation, reproductive mode, and gene flow in the brooding coral Pocillopora damicornis along the Great Barrier Reef, Australia. Marine Ecology - Progress Series, 1997, 159, 175-187.	0.9	113
70	Skeletal density and growth form of corals. Marine Ecology - Progress Series, 1987, 35, 259-266.	0.9	110
71	Mitigation and adaptation in polycentric systems: sources of power in the pursuit of collective goals. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e479.	3.6	107
72	Competitive dominance by tabular corals: an experimental analysis of recruitment and survival of understorey assemblages. Journal of Experimental Marine Biology and Ecology, 2000, 251, 117-132.	0.7	104

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73	Pulse-Driven Loss of Top-Down Control: The Critical-Rate Hypothesis. Ecosystems, 2008, 11, 226-237.	1.6	103
74	Biogeographical disparity in the functional diversity and redundancy of corals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3084-3089.	3.3	98
75	Program on ecosystem change and society: an international research strategy for integrated socialâ€“ecological systems. Current Opinion in Environmental Sustainability, 2012, 4, 134-138.	3.1	89
76	Faunal breaks and species composition of Indo-Pacific corals: the role of plate tectonics, environment and habitat distribution. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130818.	1.2	87
77	Shifting base-lines, declining coral cover, and the erosion of reef resilience: comment on Sweatman et al. (2011). Coral Reefs, 2011, 30, 653-660.	0.9	86
78	Advancing Coral Reef Governance into the Anthropocene. One Earth, 2020, 2, 64-74.	3.6	83
79	Designing a blueprint for coral reef survival. Biological Conservation, 2021, 257, 109107.	1.9	82
80	Calcification, Storm Damage and Population Resilience of Tabular Corals under Climate Change. PLoS ONE, 2012, 7, e46637.	1.1	82
81	Assembly Rules of Reef Corals Are Flexible along a Steep Climatic Gradient. Current Biology, 2012, 22, 736-741.	1.8	81
82	Connectivity, regime shifts and the resilience of coral reefs. Coral Reefs, 2009, 28, 949-957.	0.9	79
83	Correlated evolution of sex and reproductive mode in corals (Anthozoa: Scleractinia). Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 75-81.	1.2	79
84	Securing the future of the Great Barrier Reef. Nature Climate Change, 2015, 5, 508-511.	8.1	78
85	Adaptive Management of the Great Barrier Reef and the Grand Canyon World Heritage Areas. Ambio, 2007, 36, 586-592.	2.8	77
86	The Role of History in Community Dynamics: A Modelling Approach. Ecology, 1996, 77, 108-117.	1.5	74
87	Multiple feedbacks and the prevalence of alternate stable states on coral reefs. Coral Reefs, 2016, 35, 857-865.	0.9	74
88	Deficits in functional trait diversity following recovery on coral reefs. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192628.	1.2	67
89	Off-reef transport of coral fragments at Lizard Island, Australia. Marine Geology, 1999, 157, 1-6.	0.9	66
90	Emergent properties in the responses of tropical corals to recurrent climate extremes. Current Biology, 2021, 31, 5393-5399.e3.	1.8	65

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91	Demographic Approaches to Community Dynamics: A Coral Reef Example. Ecology, 1996, 77, 2256-2260.	1.5	63
92	Climate engineering reconsidered. Nature Climate Change, 2014, 4, 527-529.	8.1	63
93	Save reefs to rescue all ecosystems. Nature, 2019, 573, 333-336.	13.7	59
94	Long-term shifts in the colony size structure of coral populations along the Great Barrier Reef. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201432.	1.2	58
95	Refugia under threat: Mass bleaching of coral assemblages in highâ€latitude eastern Australia. Global Change Biology, 2019, 25, 3918-3931.	4.2	56
96	Double Jeopardy and Global Extinction Risk in Corals and Reef Fishes. Current Biology, 2014, 24, 2946-2951.	1.8	47
97	Back-to-back coral bleaching events on isolated atolls in the Coral Sea. Coral Reefs, 2019, 38, 713-719.	0.9	44
98	Density-Dependent Dynamics of Soft Coral Aggregations: The Significance of Clonal Growth and Form. Ecology, 1996, 77, 1592-1599.	1.5	40
99	Localâ€“regional species richness relationships are linear at very small to large scales in west-central Pacific corals. Coral Reefs, 2008, 27, 145-151.	0.9	39
100	Testing species abundance models: a new bootstrap approach applied to Indoâ€Pacific coral reefs. Ecology, 2009, 90, 3138-3149.	1.5	38
101	The population sizes and global extinction risk of reef-building coral species at biogeographic scales. Nature Ecology and Evolution, 2021, 5, 663-669.	3.4	36
102	AGGREGATION INFLUENCES CORAL SPECIES RICHNESS AT MULTIPLE SPATIAL SCALES. Ecology, 2007, 88, 170-177.	1.5	35
103	SCALE-DEPENDENT VARIATION IN CORAL COMMUNITY SIMILARITY ACROSS SITES, ISLANDS, AND ISLAND GROUPS. Ecology, 2007, 88, 1707-1715.	1.5	33
104	China's Degraded Environment Enters A New Normal. Trends in Ecology and Evolution, 2016, 31, 175-177.	4.2	33
105	Impacts of simulated overfishing on the territoriality of coral reef damselfish. Marine Ecology - Progress Series, 2006, 309, 255-262.	0.9	33
106	The spatial footprint and patchiness of largeâ€scale disturbances on coral reefs. Global Change Biology, 2021, 27, 4825-4838.	4.2	26
107	A unified model explains commonness and rarity on coral reefs. Ecology Letters, 2017, 20, 477-486.	3.0	23
108	Communityâ€level density dependence: an example from a shallow coral assemblage. Ecology, 2009, 90, 506-516.	1.5	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.	1.8	20
110	Geographic ranges of reef corals (Cnidaria: Anthozoa: Scleractinia) in the Indoâ€Pacific. Ecology, 2013, 94, 1659-1659.	1.5	15
111	Coral Reef Biodiversity and Conservation. Science, 2002, 296, 1026-1028.	6.0	14
112	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. BioScience, 2020, 70, 1139-1144.	2.2	14
113	Spatial variance in abundance and occupancy of corals across broad geographic scales. Ecology, 2011, 92, 1282-1291.	1.5	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. , 2002, 83, 436.		2
117	Four. Marine Protected Areas, Marine Spatial Planning, and the Resilience of Marine Ecosystems. , 2014, , 98-141.		1