

Terry P Hughes

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

43,586
citations

74
h-index

120
g-index

120
ext. papers

50,264
ext. citations

13.9
avg, IF

7.18
L-index

#	Paper	IF	Citations
113	A safe operating space for humanity. <i>Nature</i> , 2009 , 461, 472-5	50.4	6399
112	Historical overfishing and the recent collapse of coastal ecosystems. <i>Science</i> , 2001 , 293, 629-37	33.3	4278
111	Planetary Boundaries: Exploring the Safe Operating Space for Humanity. <i>Ecology and Society</i> , 2009 , 14,	4.1	2588
110	Climate change, human impacts, and the resilience of coral reefs. <i>Science</i> , 2003 , 301, 929-33	33.3	2569
109	Confronting the coral reef crisis. <i>Nature</i> , 2004 , 429, 827-33	50.4	2207
108	Catastrophes, phase shifts, and large-scale degradation of a Caribbean coral reef. <i>Science</i> , 1994 , 265, 1547-51	33.3	1964
107	Social-ecological resilience to coastal disasters. <i>Science</i> , 2005 , 309, 1036-9	33.3	1587
106	Global warming and recurrent mass bleaching of corals. <i>Nature</i> , 2017 , 543, 373-377	50.4	1539
105	Global trajectories of the long-term decline of coral reef ecosystems. <i>Science</i> , 2003 , 301, 955-8	33.3	1343
104	Phase shifts, herbivory, and the resilience of coral reefs to climate change. <i>Current Biology</i> , 2007 , 17, 360-5	6.3	1031
103	Spatial and temporal patterns of mass bleaching of corals in the Anthropocene. <i>Science</i> , 2018 , 359, 80-83	33.3	954
102	Coral reefs in the Anthropocene. <i>Nature</i> , 2017 , 546, 82-90	50.4	833
101	RECRUITMENT AND THE LOCAL DYNAMICS OF OPEN MARINE POPULATIONS. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1996 , 27, 477-500		826
100	Rising to the challenge of sustaining coral reef resilience. <i>Trends in Ecology and Evolution</i> , 2010 , 25, 633-42	20.9	733
99	Global warming transforms coral reef assemblages. <i>Nature</i> , 2018 , 556, 492-496	50.4	702
98	New paradigms for supporting the resilience of marine ecosystems. <i>Trends in Ecology and Evolution</i> , 2005 , 20, 380-6	10.9	655
97	Governance and the Capacity to Manage Resilience in Regional Social-Ecological Systems. <i>Ecology and Society</i> , 2006 , 11,	4.1	617

96	Ecology. Globalization, roving bandits, and marine resources. <i>Science</i> , 2006 , 311, 1557-8	33.3	491
95	Multiple stressors on coral reefs: A long-term perspective. <i>Limnology and Oceanography</i> , 1999 , 44, 932-948	44.8	414
94	Regional-scale assembly rules and biodiversity of coral reefs. <i>Science</i> , 2001 , 292, 1532-5	33.3	407
93	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, 16794-9	11.5	403
92	Social-ecological systems as complex adaptive systems: modeling and policy implications. <i>Environment and Development Economics</i> , 2013 , 18, 111-132	1.8	381
91	Population Dynamics and Life Histories of Foliose Corals. <i>Ecological Monographs</i> , 1985 , 55, 141-166	9	372
90	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, 18278-85	11.5	344
89	RECRUITMENT FAILURE, LIFE HISTORIES, AND LONG-TERM DECLINE OF CARIBBEAN CORALS. <i>Ecology</i> , 2000 , 81, 2250-2263	4.6	343
88	Ecology. Are U.S. coral reefs on the slippery slope to slime?. <i>Science</i> , 2005 , 307, 1725-6	33.3	332
87	Sleeping functional group drives coral-reef recovery. <i>Current Biology</i> , 2006 , 16, 2434-9	6.3	326
86	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	3.7	313
85	Biodiversity hotspots, centres of endemism, and the conservation of coral reefs. <i>Ecology Letters</i> , 2002 , 5, 775-784	10	264
84	Rebuilding marine life. <i>Nature</i> , 2020 , 580, 39-51	50.4	262
83	Environment. Looming global-scale failures and missing institutions. <i>Science</i> , 2009 , 325, 1345-6	33.3	259
82	Do corals lie about their age? Some demographic consequences of partial mortality, fission, and fusion. <i>Science</i> , 1980 , 209, 713-5	33.3	258
81	Building adaptive capacity to climate change in tropical coastal communities. <i>Nature Climate Change</i> , 2018 , 8, 117-123	21.4	242
80	Living dangerously on borrowed time during slow, unrecognized regime shifts. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 149-55	10.9	242
79	Patterns of recruitment and abundance of corals along the Great Barrier Reef. <i>Nature</i> , 1999 , 397, 59-63	50.4	242

78	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, 9489-94	11.5	226
77	Linking social and ecological systems to sustain coral reef fisheries. <i>Current Biology</i> , 2009 , 19, 206-12	6.3	225
76	Reproductive Strategies of Modular Organisms: Comparative Studies of Reef- Building Corals. <i>Ecology</i> , 1996 , 77, 950-963	4.6	219
75	Global warming impairs stock-recruitment dynamics of corals. <i>Nature</i> , 2019 , 568, 387-390	50.4	212
74	Advancing sustainability through mainstreaming a social-ecological systems perspective. <i>Current Opinion in Environmental Sustainability</i> , 2015 , 14, 144-149	7.2	211
73	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	2.1	205
72	General Resilience to Cope with Extreme Events. <i>Sustainability</i> , 2012 , 4, 3248-3259	3.6	203
71	Multiscale regime shifts and planetary boundaries. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 389-95	10.9	194
70	Coral reef diversity refutes the neutral theory of biodiversity. <i>Nature</i> , 2006 , 440, 80-2	50.4	186
69	Climate change, genotypic diversity and gene flow in reef-building corals. <i>Ecology Letters</i> , 2004 , 7, 273-278		186
68	Human activity selectively impacts the ecosystem roles of parrotfishes on coral reefs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 1621-9	4.4	180
67	Community Structure and Diversity of Coral Reefs: The Role of History. <i>Ecology</i> , 1989 , 70, 275-279	4.6	160
66	Creation of a gilded trap by the high economic value of the Maine lobster fishery. <i>Conservation Biology</i> , 2011 , 25, 904-12	6	156
65	INDO-PACIFIC BIODIVERSITY OF CORAL REEFS: DEVIATIONS FROM A MID-DOMAIN MODEL. <i>Ecology</i> , 2003 , 84, 2178-2190	4.6	156
64	Managing resilience to reverse phase shifts in coral reefs. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 541-548	5.5	155
63	Population Dynamics Based on Size or Age? A Reef-Coral Analysis. <i>American Naturalist</i> , 1987 , 129, 818-829		151
62	Ecological memory modifies the cumulative impact of recurrent climate extremes. <i>Nature Climate Change</i> , 2019 , 9, 40-43	21.4	146
61	A LONG-TERM STUDY OF COMPETITION AND DIVERSITY OF CORALS. <i>Ecological Monographs</i> , 2004 , 74, 179-210	9	145

60	Environmental and geometric constraints on Indo-Pacific coral reef biodiversity. <i>Ecology Letters</i> , 2005 , 8, 643-651	10	137
59	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	2.1	137
58	The evolutionary ecology of corals. <i>Trends in Ecology and Evolution</i> , 1992 , 7, 292-5	10.9	132
57	Species Coexistence, Keystone Species, and Succession: A Sensitivity Analysis. <i>Ecology</i> , 1994 , 75, 2204	4.6	122
56	Coral communities are regionally enriched along an oceanic biodiversity gradient. <i>Nature</i> , 2004 , 429, 867-70	50.4	121
55	Recruitment Limitation, Mortality, and Population Regulation in Open Systems: A Case Study. <i>Ecology</i> , 1990 , 71, 12-20	4.6	119
54	Securing a Just Space for Small-Scale Fisheries in the Blue Economy. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	118
53	No-take areas, herbivory and coral reef resilience. <i>Trends in Ecology and Evolution</i> , 2007 , 22, 1-3	10.9	112
52	Community structure of corals and reef fishes at multiple scales. <i>Science</i> , 2005 , 309, 1363-5	33.3	112
51	Coral reef conservation in the Anthropocene: Confronting spatial mismatches and prioritizing functions. <i>Biological Conservation</i> , 2019 , 236, 604-615	6.2	94
50	Algal blooms on coral reefs: What are the causes?. <i>Limnology and Oceanography</i> , 1999 , 44, 1583-1586	4.8	91
49	Pulse-Driven Loss of Top-Down Control: The Critical-Rate Hypothesis. <i>Ecosystems</i> , 2008 , 11, 226-237	3.9	83
48	Climate change, ecosystems and abrupt change: science priorities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190105	5.8	82
47	The wicked problem of China's disappearing coral reefs. <i>Conservation Biology</i> , 2013 , 27, 261-9	6	82
46	Competitive dominance by tabular corals: an experimental analysis of recruitment and survival of understory assemblages. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000 , 251, 117-132	2.1	81
45	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	2.6	81
44	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	8.4	77
43	Skeletal density and growth form of corals. <i>Marine Ecology - Progress Series</i> , 1987 , 35, 259-266	2.6	77

42	Large-scale bleaching of corals on the Great Barrier Reef. <i>Ecology</i> , 2018 , 99, 501	4.6	76
41	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	4.4	74
40	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	7.2	74
39	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	4.2	73
38	Assembly rules of reef corals are flexible along a steep climatic gradient. <i>Current Biology</i> , 2012 , 22, 736-743	4.1	72
37	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	4.4	66
36	Connectivity, regime shifts and the resilience of coral reefs. <i>Coral Reefs</i> , 2009 , 28, 949-957	4.2	64
35	Calcification, storm damage and population resilience of tabular corals under climate change. <i>PLoS ONE</i> , 2012 , 7, e46637	3.7	62
34	Adaptive management of the Great Barrier Reef and the Grand Canyon world heritage areas. <i>Ambio</i> , 2007 , 36, 586-92	6.5	60
33	The Role of History in Community Dynamics: A Modelling Approach. <i>Ecology</i> , 1996 , 77, 108-117	4.6	57
32	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	11.5	55
31	Multiple feedbacks and the prevalence of alternate stable states on coral reefs. <i>Coral Reefs</i> , 2016 , 35, 857-865	4.2	53
30	Off-reef transport of coral fragments at Lizard Island, Australia. <i>Marine Geology</i> , 1999 , 157, 1-6	3.3	50
29	Advancing Coral Reef Governance into the Anthropocene. <i>One Earth</i> , 2020 , 2, 64-74	8.1	43
28	Demographic Approaches to Community Dynamics: A Coral Reef Example. <i>Ecology</i> , 1996 , 77, 2256-2260	4.6	43
27	Double jeopardy and global extinction risk in corals and reef fishes. <i>Current Biology</i> , 2014 , 24, 2946-51	6.3	38
26	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	4.2	32
25	Testing species abundance models: a new bootstrap approach applied to Indo-Pacific coral reefs. <i>Ecology</i> , 2009 , 90, 3138-49	4.6	31

24	Save reefs to rescue all ecosystems. <i>Nature</i> , 2019 , 573, 333-336	50.4	30
23	Deficits in functional trait diversity following recovery on coral reefs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20192628	4.4	30
22	China's Degraded Environment Enters A New Normal. <i>Trends in Ecology and Evolution</i> , 2016 , 31, 175-177	10.9	30
21	Scale-dependent variation in coral community similarity across sites, islands, and island groups. <i>Ecology</i> , 2007 , 88, 1707-15	4.6	30
20	Refugia under threat: Mass bleaching of coral assemblages in high-latitude eastern Australia. <i>Global Change Biology</i> , 2019 , 25, 3918-3931	11.4	29
19	Impacts of simulated overfishing on the territoriality of coral reef damselfish. <i>Marine Ecology - Progress Series</i> , 2006 , 309, 255-262	2.6	29
18	Back-to-back coral bleaching events on isolated atolls in the Coral Sea. <i>Coral Reefs</i> , 2019 , 38, 713-719	4.2	29
17	Density-Dependent Dynamics of Soft Coral Aggregations: The Significance of Clonal Growth and Form. <i>Ecology</i> , 1996 , 77, 1592-1599	4.6	26
16	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	4.4	26
15	Aggregation influences coral species richness at multiple spatial scales. <i>Ecology</i> , 2007 , 88, 170-7	4.6	24
14	Designing a blueprint for coral reef survival. <i>Biological Conservation</i> , 2021 , 257, 109107	6.2	23
13	Community-level density dependence: an example from a shallow coral assemblage. <i>Ecology</i> , 2009 , 90, 506-16	4.6	17
12	A critique of claims for negative impacts of Marine Protected Areas on fisheries 2016 , 26, 637-41		17
11	A unified model explains commonness and rarity on coral reefs. <i>Ecology Letters</i> , 2017 , 20, 477-486	10	13
10	Coral reef biodiversity and conservation. <i>Science</i> , 2002 , 296, 1026-8; author reply 1026-8	33.3	13
9	Geographic ranges of reef corals (Cnidaria: Anthozoa: Scleractinia) in the Indo-Pacific. <i>Ecology</i> , 2013 , 94, 1659	4.6	11
8	Emergent properties in the responses of tropical corals to recurrent climate extremes. <i>Current Biology</i> , 2021 , 31, 5393-5399.e3	6.3	11
7	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	12.3	11

6	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. <i>BioScience</i> , 2020 , 70, 1139-1144	5.7	8
5	Spatial variance in abundance and occupancy of corals across broad geographic scales. <i>Ecology</i> , 2011 , 92, 1282-91	4.6	7
4	The spatial footprint and patchiness of large-scale disturbances on coral reefs. <i>Global Change Biology</i> , 2021 , 27, 4825-4838	11.4	5
3	DETECTING REGIONAL VARIATION USING META-ANALYSIS AND LARGE-SCALE SAMPLING: LATITUDINAL PATTERNS IN RECRUITMENT 2002 , 83, 436		2
2	IV.8 Seascape Patterns and Dynamics of Coral Reefs 2009 , 482-487		1
1	Social-Ecological Resilience to Coastal Disasters 2018 , 151-159		0