Jody M Webster

List of Publications by Year in Descending Order

83 papers	2,258 citations	27 h-index	45 g-index
85 ext. papers	2,722 ext. citations	4.8 avg, IF	5.08 L-index

#	Paper	IF	Citations
83	New constraints on the postglacial shallow-water carbonate accumulation in the Great Barrier Reef.. *Scientific Reports*, **2022**, 12, 924	4.9	1
82	Evolution of the inter-reef Halimeda carbonate factory in response to Holocene sea-level and environmental change in the Great Barrier Reef. *Quaternary Science Reviews*, **2022**, 277, 107347	3.9	1
81	Submarine landslide morphometrics and slope failure dynamics along a mixed carbonate-siliciclastic margin, north-eastern Australia. *Geomorphology*, **2022**, 403, 108179	4.3	1
80	Inter-reef Halimeda algal habitats within the Great Barrier Reef support a distinct biotic community and high biodiversity. *Nature Ecology and Evolution*, **2021**, 5, 647-655	12.3	1
79	Examining the impact of the Great Barrier Reef on tsunami propagation using numerical simulations. *Natural Hazards*, **2021**, 108, 347-388	3	0
78	Morphodynamic Controls for Growth and Evolution of a Rubble Coral Island. *Remote Sensing*, **2021**, 13, 1582	5	1
77	Large-scale margin collapses along a partly drowned, isolated carbonate platform (Lansdowne Bank, SW Pacific Ocean). *Marine Geology*, **2021**, 436, 106477	3.3	3
76	Morphotype differentiation in the Great Barrier Reef Halimeda bioherm carbonate factory: Internal architecture and surface geomorphometrics. *Depositional Record*, **2021**, 7, 176-199	2	4
75	Variations in Mid- to Late Holocene Nitrogen Supply to Northern Great Barrier Reef Halimeda Macroalgal Bioherms. *Paleoceanography and Paleoclimatology*, **2021**, 36, e2020PA003871	3.3	1
74	Coral Record of Younger Dryas Chronozone Warmth on the Great Barrier Reef. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2020PA003962	3.3	1
73	Bayesreef: A Bayesian inference framework for modelling reef growth in response to environmental change and biological dynamics. *Environmental Modelling and Software*, **2020**, 125, 104610	5.2	7
72	Mechanisms of spur and groove development and implications for reef platform evolution. *Quaternary Science Reviews*, **2020**, 231, 106155	3.9	4
71	The Influence of Carbonate Platforms on the Geomorphological Development of a Mixed Carbonate-Siliciclastic Margin (Great Barrier Reef, Australia). *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC008915	3.6	1
70	A new model of Holocene reef initiation and growth in response to sea-level rise on the Southern Great Barrier Reef. *Sedimentary Geology*, **2020**, 397, 105556	2.8	6
69	Bioerosion traces in the Great Barrier Reef over the past 10 to 30 kyr. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 542, 109503	2.9	1
68	Controls on the spatio-temporal distribution of microbialite crusts on the Great Barrier Reef over the past 30,000 years. *Marine Geology*, **2020**, 429, 106312	3.3	1
67	Geology and Geomorphology. *Coral Reefs of the World*, **2019**, 849-878	2.1	4

66	Morphology and sedimentology of the shelf-upper slope transition in the Abrolhos continental shelf (east Brazilian margin). *Geo-Marine Letters*, **2019**, 39, 117-134	1.9	5
65	Paleoshorelines and lowstand sedimentation on subtropical shelves: a case study from the Fraser Shelf, Australia. *Australian Journal of Earth Sciences*, **2019**, 66, 547-565	1.4	4
64	Depositional environments beneath the shelf-edge slopes of the Great Barrier Reef, inferred from foraminiferal assemblages: IODP Expedition 325. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2019**, 514, 386-397	2.9	5
63	Spatio-temporal patterns in the postglacial flooding of the Great Barrier Reef shelf, Australia. *Continental Shelf Research*, **2019**, 173, 13-26	2.4	13
62	Coral reef structural complexity provides important coastal protection from waves under rising sea levels. *Science Advances*, **2018**, 4, eaao4350	14.3	92
61	Holocene reef growth over irregular Pleistocene karst confirms major influence of hydrodynamic factors on Holocene reef development. *Quaternary Science Reviews*, **2018**, 180, 157-176	3.9	10
60	Variability of depth-limited waves in coral reef surf zones. *Estuarine, Coastal and Shelf Science*, **2018** , 211, 36-44	2.9	7
59	Rapid glaciation and a two-step sea level plunge into the Last Glacial Maximum. *Nature*, **2018**, 559, 603-607	50.4	99
58	A unified framework for modelling sediment fate from source to sink and its interactions with reef systems over geological times. *Scientific Reports*, **2018**, 8, 5252	4.9	10
57	Exploring coral reef responses to millennial-scale climatic forcings: insights from the 1-D numerical tool pyReef-Core v1.0. *Geoscientific Model Development*, **2018**, 11, 2093-2110	6.3	5
56	Response of the Great Barrier Reef to sea-level and environmental changes over the past 30,000 years. *Nature Geoscience*, **2018**, 11, 426-432	18.3	61
55	Episodic reef growth in the granitic Seychelles during the Last Interglacial: Implications for polar ice sheet dynamics. *Marine Geology*, **2018**, 399, 170-187	3.3	10
54	Successive phases of Holocene reef flat development: Evidence from the mid- to outer Great Barrier Reef. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 466, 221-230	2.9	13
53	Coral community changes in the Great Barrier Reef in response to major environmental changes over glacial-interglacial timescales. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 472, 216-235	2.9	14
52	Gloria Knolls Slide: A prominent submarine landslide complex on the Great Barrier Reef margin of north-eastern Australia. *Marine Geology*, **2017**, 385, 68-83	3.3	15
51	The evolution of the Great Barrier Reef during the Last Interglacial Period. *Global and Planetary Change*, **2017**, 149, 53-71	4.2	21
50	New evidence of Hawaiian coral reef drowning in response to meltwater pulse-1A. *Quaternary Science Reviews*, **2017**, 175, 60-72	3.9	10
49	Reef Sedimentary Accretion Model (ReefSAM): Understanding coral reef evolution on Holocene time scales using 3D stratigraphic forward modelling. *Marine Geology*, **2017**, 391, 108-126	3.3	8

48	High-resolution hyperspectral imaging of diagenesis and clays in fossil coral reef material: a nondestructive tool for improving environmental and climate reconstructions. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 3209-3230	3.6	3
47	New constraints on the spatial distribution and morphology of the Halimeda bioherms of the Great Barrier Reef, Australia. *Coral Reefs*, **2016**, 35, 1343-1355	4.2	23
46	Influence of hydrodynamic energy on Holocene reef flat accretion, Great Barrier Reef. *Quaternary Research*, **2016**, 85, 44-53	1.9	18
45	Submarine landslides on the Great Barrier Reef shelf edge and upper slope: A mechanism for generating tsunamis on the north-east Australian coast?. *Marine Geology*, **2016**, 371, 120-129	3.3	20
44	Postglacial sediment deposition along a mixed carbonate-siliciclastic margin: New constraints from the drowned shelf-edge reefs of the Great Barrier Reef, Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2016**, 446, 168-185	2.9	28
43	Morphology and evolution of drowned carbonate terraces during the last two interglacial cycles, off Hilo, NE Hawaii. *Marine Geology*, **2016**, 371, 57-81	3.3	7
42	Submarine Landslides and Incised Canyons of the Southeast Queensland Continental Margin. *Advances in Natural and Technological Hazards Research*, **2016**, 125-134	1.8	7
41	Are coral reefs victims of their own past success?. *Science Advances*, **2016**, 2, e1500850	14.3	35
40	Geomorphic changes of a coral shingle cay measured using Kite Aerial Photography. *Geomorphology*, **2016**, 270, 1-8	4.3	15
39	Coral reef response to Quaternary sea-level and environmental changes: State of the science. *Sedimentology*, **2015**, 62, 401-428	3.3	51
38	Holocene turn-on and evolution of the Southern Great Barrier Reef: Revisiting reef cores from the Capricorn Bunker Group. *Marine Geology*, **2015**, 363, 174-190	3.3	33
37	Late Holocene sea-level fall and turn-off of reef flat carbonate production: Rethinking bucket fill and coral reef growth models. *Geology*, **2015**, 43, 175-178	5	27
36	Mixed Carbonate–Siliciclastic Sedimentation Along the Great Barrier Reef Upper Slope: A Challenge To the Reciprocal Sedimentation Model. *Journal of Sedimentary Research*, **2015**, 85, 1019-1036	2.1	29
35	Tropical tales of polar ice: evidence of Last Interglacial polar ice sheet retreat recorded by fossil reefs of the granitic Seychelles islands. *Quaternary Science Reviews*, **2015**, 107, 182-196	3.9	70
34	Rapid relative sea-level fall along north-eastern Australia between 1200 and 800 cal. yr BP: An appraisal of the oyster evidence. *Marine Geology*, **2015**, 370, 20-30	3.3	20
33	Seismic stratigraphy and development of the shelf-edge reefs of the Great Barrier Reef, Australia. *Marine Geology*, **2014**, 353, 1-20	3.3	31
32	Coral reefs and sea-level change. *Marine Geology*, **2014**, 352, 248-267	3.3	111
31	Filling the gap: A 60 ky record of mixed carbonate-siliciclastic turbidite deposition from the Great Barrier Reef. *Marine and Petroleum Geology*, **2014**, 50, 40-50	4.7	18

30	Sediment transport and mixing depth on a coral reef sand apron. *Geomorphology*, **2014**, 222, 143-150	4.3	33
29	Postglacial fringing-reef to barrier-reef conversion on Tahiti links Darwin's reef types. *Scientific Reports*, **2014**, 4, 4997	4.9	16
28	Intensification of the meridional temperature gradient in the Great Barrier Reef following the Last Glacial Maximum. *Nature Communications*, **2014**, 5, 4102	17.4	52
27	Spur and groove distribution, morphology and relationship to relative wave exposure, Southern Great Barrier Reef, Australia. *Journal of Coastal Research*, **2014**, 70, 115-120	0.6	8
26	Geomorphology and sediment transport on a submerged back-reef sand apron: One Tree Reef, Great Barrier Reef. *Geomorphology*, **2014**, 222, 132-142	4.3	20
25	Potential collapse of the upper slope and tsunami generation on the Great Barrier Reef margin, north-eastern Australia. *Natural Hazards*, **2013**, 66, 557-575	3	14
24	Mixing of relict and modern tests of larger benthic foraminifera on the Great Barrier Reef shelf margin. *Marine Micropaleontology*, **2013**, 101, 68-75	1.7	21
23	Variation in canyon morphology on the Great Barrier Reef margin, north-eastern Australia: The influence of slope and barrier reefs. *Geomorphology*, **2013**, 191, 35-50	4.3	47
22	Coral reef sediment dynamics: evidence of sand-apron evolution on a daily and decadal scale. *Journal of Coastal Research*, **2013**, 65, 606-611	0.6	14
21	Submerged banks in the Great Barrier Reef, Australia, greatly increase available coral reef habitat. *ICES Journal of Marine Science*, **2013**, 70, 284-293	2.7	70
20	Ice sheet collapse following a prolonged period of stable sea level during the last interglacial. *Nature Geoscience*, **2013**, 6, 796-800	18.3	126
19	Evolution of Coral Rubble Deposits on a Reef Platform as Detected by Remote Sensing. *Remote Sensing*, **2013**, 5, 1-18	5	12
18	Development of an inshore fringing coral reef using textural, compositional and stratigraphic data from Magnetic Island, Great Barrier Reef, Australia. *Marine Geology*, **2012**, 299-302, 18-32	3.3	20
17	Holocene evolution of the Great Barrier Reef: Insights from 3D numerical modelling. *Sedimentary Geology*, **2012**, 265-266, 56-71	2.8	23
16	Late Pleistocene history of turbidite sedimentation in a submarine canyon off the northern Great Barrier Reef, Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2012**, 331-332, 75-89	2.9	29
15	Reef response to sea-level and environmental changes during the last deglaciation: Integrated Ocean Drilling Program Expedition 310, Tahiti Sea Level. *Geology*, **2012**, 40, 643-646	5	75
14	Variation in deglacial coralgal assemblages and their paleoenvironmental significance: IODP Expedition 310, Tahiti Sea Level *Global and Planetary Change*, **2011**, 76, 1-15	4.2	45
13	The impact of the Mid-Pleistocene Transition on the composition of submerged reefs of the Maui Nui Complex, Hawaii. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2011**, 299, 493-506	2.9	7

12	Geomorphology of submerged reefs on the shelf edge of the Great Barrier Reef: The influence of oscillating Pleistocene sea-levels. *Marine Geology*, **2011**, 288, 61-78	3.3	69
11	Morphology and controls on the evolution of a mixed carbonate–siliciclastic submarine canyon system, Great Barrier Reef margin, north-eastern Australia. *Marine Geology*, **2011**, 289, 100-116	3.3	55
10	Coral reef evolution on rapidly subsiding margins. *Global and Planetary Change*, **2009**, 66, 129-148	4.2	50
9	Mid-late Holocene sea-level variability in eastern Australia. *Terra Nova*, **2008**, 20, 74-81	3	97
8	From Corals to Canyons: The Great Barrier Reef Margin. *Eos*, **2008**, 89, 217-218	1.5	23
7	New evidence for drowned shelf edge reefs in the Great Barrier Reef, Australia. *Marine Geology*, **2008**, 247, 17-34	3.3	61
6	Numerical modeling of the growth and drowning of Hawaiian coral reefs during the last two glacial cycles (0–250 kyr). *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	21
5	Palaeoenvironmental records from fossil corals: The effects of submarine diagenesis on temperature and climate estimates. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 4693-4703	5.5	80
4	Drowning of the −150 m reef off Hawaii: A casualty of global meltwater pulse 1A?. *Geology*, **2004**, 32, 249	5	77
3	Coral variation in two deep drill cores: significance for the Pleistocene development of the Great Barrier Reef. *Sedimentary Geology*, **2003**, 159, 61-80	2.8	82
2	Role of the Deglacial Buildup of the Great Barrier Reef for the Global Carbon Cycle. *Geophysical Research Letters*,	4.9	2
1	IODP Expedition 325: Great Barrier Reefs Reveals Past Sea-Level, Climate and Environmental Changes Since the Last Ice Age. *Scientific Drilling*,12, 32-45		23