Jessica A Benthuysen

List of Publications by Year
in descending order

32	5,823	279798	414414
papers	citations	23 h-index	32 g-index

33	33	33	4339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wave and Tidally Driven Flow Dynamics Within a Coral Reef Atoll off Northwestern Australia. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	7
2	Watermass characteristics and circulation near 110Â°E in the southeast Indian Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2022, 202, 105149.	1.4	3
3	Marine Heatwaves. Annual Review of Marine Science, 2021, 13, 313-342.	11.6	254
4	Marine cold-spells. Progress in Oceanography, 2021, 198, 102684.	3.2	35
5	Progress in understanding of Indian Ocean circulation, variability, airâ€“sea exchange, and impacts on biogeochemistry. Ocean Science, 2021, 17, 1677-1751.	3.4	43
6	Keeping pace with marine heatwaves. Nature Reviews Earth & Environment, 2020, 1, 482-493.	29.7	175
7	Drivers and impacts of the most extreme marine heatwave events. Scientific Reports, 2020, 10, 19359.	3.3	155
8	Editorial: Advances in Understanding Marine Heatwaves and Their Impacts. Frontiers in Marine Science, 2020, 7, .	2.5	36
9	A global assessment of marine heatwaves and their drivers. Nature Communications, 2019, 10, 2624.	12.8	337
10	Marine heatwaves threaten global biodiversity and the provision of ecosystem services. Nature Climate Change, 2019, 9, 306-312.	18.8	883
11	Projected Marine Heatwaves in the 21st Century and the Potential for Ecological Impact. Frontiers in Marine Science, 2019, 6, .	2.5	300
12	Longer and more frequent marine heatwaves over the past century. Nature Communications, 2018, 9, 1324.	12.8	1,081
13	Extreme Marine Warming Across Tropical Australia During Austral Summer 2015â€“2016. Journal of Geophysical Research: Oceans, 2018, 123, 1301-1326.	2.6	111
14	Topographic Beta Spiral and Onshore Intrusion of the Kuroshio Current. Geophysical Research Letters, 2018, 45, 287-296.	4.0	40
15	Closing the Gap Between the Coral Sea and the Equator: Direct Observations of the North Australian Western Boundary Currents. Journal of Geophysical Research: Oceans, 2018, 123, 9212-9231.	2.6	8
16	Key Dynamical Factors Driving the Kuroshio Subsurface Water to Reach the Zhejiang Coastal Area. Journal of Geophysical Research: Oceans, 2018, 123, 9061-9081.	2.6	31
17	A fine spatial-scale sea surface temperature atlas of the Australian regional seas (SSTAARS): Seasonal variability and trends around Australasia and New Zealand revisited. Journal of Marine Systems, 2018, 187, 156-196.	2.1	57
18	Categorizing and Naming Marine Heatwaves. Oceanography, 2018, 31, .	1.0	368

#	Article	IF	Citations
19	Seasonal organic matter dynamics in the Great Barrier Reef lagoon: Contribution of carbohydrates and proteins. Continental Shelf Research, 2017, 138, 95-105.	1.8	19
20	The unprecedented 2015/16 Tasman Sea marine heatwave. Nature Communications, 2017, 8, 16101.	12.8	374
21	Intrusive upwelling in the Central Great Barrier Reef. Journal of Geophysical Research: Oceans, 2016, 121, 8395-8416.	2.6	25
22	Environmental drivers of growth in massive Porites corals over 16 degrees of latitude along Australia's northwest shelf. Limnology and Oceanography, 2016, 61, 684-700.	3.1	23
23	A hierarchical approach to defining marine heatwaves. Progress in Oceanography, 2016, 141, 227-238.	3.2	1,081
24	Coral reef metabolism and carbon chemistry dynamics of a coral reef flat. Geophysical Research Letters, 2015, 42, 3980-3988.	4.0	72
25	Freshening anomalies in the Indonesian throughflow and impacts on the Leeuwin Current during 2010-2011. Geophysical Research Letters, 2015, 42, 8555-8562.	4.0	60
26	Rapid Generation of Upwelling at a Shelf Break Caused by Buoyancy Shutdown. Journal of Physical Oceanography, 2015, 45, 294-312.	1.7	20
27	Spatial patterns of warming off Western Australia during the 2011 Ningaloo NiÃ±o: Quantifying impacts of remote and local forcing. Continental Shelf Research, 2014, 91, 232-246.	1.8	103
28	Dynamics of the Leeuwin Current: Part 2. Impacts of mixing, friction, and advection on a buoyancy-driven eastern boundary current over a shelf. Dynamics of Atmospheres and Oceans, 2014, 65, 39-63.	1.8	27
29	Nonlinear stratified spindown over a slope. Journal of Fluid Mechanics, 2013, 726, 371-403.	3.4	7
30	Dynamics of the Leeuwin Current: Part 1. Coastal flows in an inviscid, variable-density, layer model. Dynamics of Atmospheres and Oceans, 2013, 63, 24-59.	1.8	42
31	Friction and Diapycnal Mixing at a Slope: Boundary Control of Potential Vorticity. Journal of Physical Oceanography, 2012, 42, 1509-1523.	1.7	36
32	Asymmetries in vertical vorticity and vertical velocity arising during nonlinear homogeneous spindown. Physics of Fluids, 2012, 24, .	4.0	6