List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Observed poleward freshwater transport since 1970. Nature, 2022, 602, 617-622.	13.7	16
2	Reconciling global mean and regional sea level change in projections and observations. Nature Communications, 2021, 12, 990.	5.8	26
3	Fifty Year Trends in Global Ocean Heat Content Traced to Surface Heat Fluxes in the Subâ€Polar Ocean. Geophysical Research Letters, 2021, 48, e2020GL091439.	1.5	7
4	Evolving patterns of sterodynamic sea-level rise under mitigation scenarios and insights from linear system theory. Climate Dynamics, 2021, 57, 635-656.	1.7	4
5	Projected ocean warming constrained by the ocean observational record. Nature Climate Change, 2021, 11, 834-839.	8.1	27
6	Evaluation of the Local Sea‣evel Budget at Tide Gauges Since 1958. Geophysical Research Letters, 2021, 48, e2021GL094502.	1.5	28
7	Oceanâ€Only FAFMIP: Understanding Regional Patterns of Ocean Heat Content and Dynamic Sea Level Change. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002027.	1.3	24
8	Regional Dynamic Sea Level Simulated in the CMIP5 and CMIP6 Models: Mean Biases, Future Projections, and Their Linkages. Journal of Climate, 2020, 33, 6377-6398.	1.2	58
9	Detecting a forced signal in satellite-era sea-level change. Environmental Research Letters, 2020, 15, 094079.	2.2	11
10	Processes Responsible for the Southern Hemisphere Ocean Heat Uptake and Redistribution under Anthropogenic Warming. Journal of Climate, 2020, 33, 3787-3807.	1.2	20
11	A Mass and Energy Conservation Analysis of Drift in the CMIP6 Ensemble. Journal of Climate, 2020, , 1-43.	1.2	22
12	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. Frontiers in Marine Science, 2019, 6, .	1.2	123
13	Framework for Highâ€End Estimates of Sea Level Rise for Stakeholder Applications. Earth's Future, 2019, 7, 923-938.	2.4	46
14	Adequacy of the Ocean Observation System for Quantifying Regional Heat and Freshwater Storage and Change. Frontiers in Marine Science, 2019, 6, .	1.2	19
15	Concepts and Terminology for Sea Level: Mean, Variability and Change, Both Local and Global. Surveys in Geophysics, 2019, 40, 1251-1289.	2.1	262
16	Anthropogenic Aerosols, Greenhouse Gases, and the Uptake, Transport, and Storage of Excess Heat in the Climate System. Geophysical Research Letters, 2019, 46, 4894-4903.	1.5	30
17	Meeting User Needs for Sea Level Rise Information: A Decision Analysis Perspective. Earth's Future, 2019, 7, 320-337.	2.4	112

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19	ENSO-Related Global Ocean Heat Content Variations. Journal of Climate, 2019, 32, 45-68.	1.2	13
20	Sea-Level and Climate Change. Encyclopedia of Earth Sciences Series, 2019, , 1485-1492.	0.1	1
21	Sea‣evel Trend Uncertainty With Pacific Climatic Variability and Temporallyâ€Correlated Noise. Journal of Geophysical Research: Oceans, 2018, 123, 1978-1993.	1.0	34
22	Global sea-level budget 1993–present. Earth System Science Data, 2018, 10, 1551-1590.	3.7	409
23	Sea-Level and Climate Change. Encyclopedia of Earth Sciences Series, 2018, , 1-8.	0.1	Ο
24	Variability and change of sea level and its components in the <scp>I</scp> ndoâ€ <scp>P</scp> acific region during the altimetry era. Journal of Geophysical Research: Oceans, 2017, 122, 1862-1881.	1.0	17
25	Distinguishing the Quasi-Decadal and Multidecadal Sea Level and Climate Variations in the Pacific: Implications for the ENSO-Like Low-Frequency Variability. Journal of Climate, 2017, 30, 5097-5117.	1.2	23
26	Regional Sea Level Variability and Trends, 1960–2007: A Comparison of Sea Level Reconstructions and Ocean Syntheses. Journal of Geophysical Research: Oceans, 2017, 122, 9068-9091.	1.0	12
27	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. Journal of Climate, 2017, 30, 8565-8593.	1.2	57
28	No chaos in the satellite-data record. Nature, 2017, 549, 334-334.	13.7	1
29	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. Journal of Climate, 2017, 30, 8539-8563.	1.2	64
30	Sea level projections for the Australian region in the 21st century. Geophysical Research Letters, 2017, 44, 8481-8491.	1.5	62
31	The increasing rate of global mean sea-level rise during 1993–2014. Nature Climate Change, 2017, 7, 492-495.	8.1	313
32	Simulating the Role of Surface Forcing on Observed Multidecadal Upper-Ocean Salinity Changes. Journal of Climate, 2016, 29, 5575-5588.	1.2	28
33	Basal melt, seasonal water mass transformation, ocean current variability, and deep convection processes along the Amery Ice Shelf calving front, East Antarctica. Journal of Geophysical Research: Oceans, 2016, 121, 4946-4965.	1.0	32
34	Anthropogenic forcing dominates global mean sea-level rise since 1970. Nature Climate Change, 2016, 6, 701-705.	8.1	105
35	Interactions between sea-level rise and wave exposure on reef island dynamics in the Solomon Islands. Environmental Research Letters, 2016, 11, 054011.	2.2	163
36	Evaluation of the interdecadal variability of sea surface temperature and sea level in the Pacific in CMIP3 and CMIP5 models. International Journal of Climatology, 2016, 36, 3723-3740.	1.5	33

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37	Sensitivity of Global Upper-Ocean Heat Content Estimates to Mapping Methods, XBT Bias Corrections, and Baseline Climatologies*. Journal of Climate, 2016, 29, 4817-4842.	1.2	83
38	Ocean temperatures chronicle the ongoing warming of Earth. Nature Climate Change, 2016, 6, 116-118.	8.1	123
39	Coastal sea level changes, observed and projected during the 20th and 21st century. Climatic Change, 2016, 134, 269-281.	1.7	153
40	Internal climate memory in observations and models. Geophysical Research Letters, 2015, 42, 1232-1242.	1.5	33
41	Seasonal coastal sea level prediction using a dynamical model. Geophysical Research Letters, 2015, 42, 6747-6753.	1.5	18
42	The Sea Level Response to External Forcings in Historical Simulations of CMIP5 Climate Models*. Journal of Climate, 2015, 28, 8521-8539.	1.2	24
43	Quantifying internally generated and externally forced climate signals at regional scales in CMIP5 models. Geophysical Research Letters, 2015, 42, 9394-9403.	1.5	24
44	Unabated planetary warming and its ocean structure since 2006. Nature Climate Change, 2015, 5, 240-245.	8.1	377
45	Unabated global mean sea-level rise over the satellite altimeter era. Nature Climate Change, 2015, 5, 565-568.	8.1	227
46	Recent Progress in Understanding and Projecting Regional and Global Mean Sea Level Change. Current Climate Change Reports, 2015, 1, 224-246.	2.8	42
47	Information for Australian impact and adaptation planning in response to sea-level rise. , 2015, 65, 127-149.		40
48	Seasonal prediction of global sea level anomalies using an ocean–atmosphere dynamical model. Climate Dynamics, 2014, 43, 2131-2145.	1.7	24
49	Projection of subtropical gyre circulation and associated sea level changes in the Pacific based on CMIP3 climate models. Climate Dynamics, 2014, 43, 131-144.	1.7	39
50	Time of emergence for regional sea-level change. Nature Climate Change, 2014, 4, 1006-1010.	8.1	109
51	Australian sea levels—Trends, regional variability and influencing factors. Earth-Science Reviews, 2014, 136, 155-174.	4.0	106
52	Detection and attribution of global mean thermosteric sea level change. Geophysical Research Letters, 2014, 41, 5951-5959.	1.5	51
53	A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. Reviews of Geophysics, 2013, 51, 450-483.	9.0	367
54	Sea-Level Rise by 2100. Science, 2013, 342, 1445-1445.	6.0	140

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55	Twentieth-Century Global-Mean Sea Level Rise: Is the Whole Greater than the Sum of the Parts?. Journal of Climate, 2013, 26, 4476-4499.	1.2	197
56	Towards a global regionally varying allowance for sea-level rise. Ocean Engineering, 2013, 71, 17-27.	1.9	65
57	Energy budget constraints on climate response. Nature Geoscience, 2013, 6, 415-416.	5.4	270
58	Characterizing and minimizing the effects of noise in tide gauge time series: relative and geocentric sea level rise around Australia. Geophysical Journal International, 2013, 194, 719-736.	1.0	30
59	Evaluating the ability of process based models to project sea-level change. Environmental Research Letters, 2013, 8, 014051.	2.2	92
60	Sea-Level and Ocean Heat-Content Change. International Geophysics, 2013, , 697-725.	0.6	9
61	Regional Sea-Level Projection. Science, 2012, 336, 550-551.	6.0	55
62	Human-induced global ocean warming onÂmultidecadal timescales. Nature Climate Change, 2012, 2, 524-529.	8.1	116
63	Sea level trends, interannual and decadal variability in the Pacific Ocean. Geophysical Research Letters, 2012, 39, .	1.5	194
64	Rapid barotropic sea level rise from ice sheet melting. Journal of Geophysical Research, 2012, 117, .	3.3	55
65	Comment on "Ocean heat content and Earth's radiation imbalance. II. Relation to climate shifts― Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3466-3468.	0.9	16
66	Absolute Calibration in Bass Strait, Australia: TOPEX, Jason-1 and OSTM/Jason-2. Marine Geodesy, 2011, 34, 242-260.	0.9	65
67	Revisiting the Earth's sea-level and energy budgets from 1961 to 2008. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	415
68	Observed decreases in oxygen content of the global ocean. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	227
69	Understanding and Projecting Sea Level Change. Oceanography, 2011, 24, 130-143.	0.5	104
70	Sea-Level Rise from the Late 19th to the Early 21st Century. Surveys in Geophysics, 2011, 32, 585-602.	2.1	1,238
71	Exploring high-end scenarios for local sea level rise to develop flood protection strategies for a low-lying delta—the Netherlands as an example. Climatic Change, 2011, 109, 617-645.	1.7	166
72	Satellite Altimetry for Geodetic, Oceanographic, and Climate Studies in the Australian Region. , 2011, , 473-508.		27

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73	Sea-Level Rise from the Late 19th to the Early 21st Century. Space Sciences Series of ISSI, 2011, , 585-602.	0.0	53
74	An assessment of climate change impacts and adaptation for the Torres Strait Islands, Australia. Climatic Change, 2010, 102, 405-433.	1.7	102
75	Variability and trends in the directional wave climate of the Southern Hemisphere. International Journal of Climatology, 2010, 30, 475-491.	1.5	223
76	Strong export of Antarctic Bottom Water east of the Kerguelen plateau. Nature Geoscience, 2010, 3, 327-331.	5.4	60
77	The Changing Oceans. Science, 2010, 328, 1453-1453.	6.0	2
78	MODELING PROPOSAL: Coordinating Global Ocean Wave Climate Projections. Bulletin of the American Meteorological Society, 2010, 91, 451-454.	1.7	40
79	An Earth-System Prediction Initiative for the Twenty-First Century. Bulletin of the American Meteorological Society, 2010, 91, 1377-1388.	1.7	88
80	Changes in the global hydrological ycle inferred from ocean salinity. Geophysical Research Letters, 2010, 37, .	1.5	144
81	Progress and Challenges in Monitoring Ocean Temperature and Heat Content. , 2010, , .		2
82	Our changing oceans: conclusions of the first International Symposium on the Effects of climate change on the world's oceans. ICES Journal of Marine Science, 2009, 66, 1435-1438.	1.2	19
83	Evidence for the accelerations of sea level on multiâ€decade and century timescales. International Journal of Climatology, 2009, 29, 777-789.	1.5	199
84	Lessons Learned from IPCC AR4: Scientific Developments Needed to Understand, Predict, and Respond to Climate Change. Bulletin of the American Meteorological Society, 2009, 90, 497-514.	1.7	47
85	Understanding global sea levels: past, present and future. Sustainability Science, 2008, 3, 9-22.	2.5	211
86	Improved estimates of upper-ocean warming and multi-decadal sea-level rise. Nature, 2008, 453, 1090-1093.	13.7	676
87	Matthias Tomczak. Progress in Oceanography, 2008, 77, 273-275.	1.5	0
88	Changing Expendable Bathythermograph Fall Rates and Their Impact on Estimates of Thermosteric Sea Level Rise. Journal of Climate, 2008, 21, 5657-5672.	1.2	232
89	Simulated Lagrangian pathways between the Leeuwin Current System and the upper-ocean circulation of the southeast Indian Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 797-817.	0.6	124
90	Recent Climate Observations Compared to Projections. Science, 2007, 316, 709-709.	6.0	519

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91	A Change in Circulation?. Science, 2007, 317, 908-909.	6.0	10
92	Antarctic coastal polynya response to climate change. Journal of Geophysical Research, 2007, 112, .	3.3	30
93	Understanding Sea Level Rise and Variability. Eos, 2007, 88, 43.	0.1	38
94	A 20th century acceleration in global sea-level rise. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	1,181
95	Role of eddies in cooling the Leeuwin Current. Geophysical Research Letters, 2006, 33, .	1.5	28
96	Eddy shedding and energy conversions in the East Australian Current. Journal of Geophysical Research, 2006, 111, .	3.3	85
97	Sea-level rise at tropical Pacific and Indian Ocean islands. Global and Planetary Change, 2006, 53, 155-168.	1.6	221
98	Pan-oceanic response to increasing anthropogenic aerosols: Impacts on the Southern Hemisphere oceanic circulation. Geophysical Research Letters, 2006, 33, .	1.5	42
99	Statistical description of the East Australian Current low-frequency variability from the WOCE PCM3 array. Marine and Freshwater Research, 2006, 57, 273.	0.7	9
100	Significant decadal-scale impact of volcanic eruptions on sea level and ocean heat content. Nature, 2005, 438, 74-77.	13.7	207
101	Effect of Salinity on Estimating Geostrophic Transport of the Indonesian Throughflow along the IX1 XBT Section. Journal of Oceanography, 2005, 61, 795-801.	0.7	14
102	Coastal and global averaged sea level rise for 1950 to 2000. Geophysical Research Letters, 2005, 32, .	1.5	89
103	Interdecadal water mass changes in the Southern Ocean between 30°E and 160°E. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	56
104	Using Sea Level Rise Projections for Urban Planning in Australia. Journal of Coastal Research, 2004, 202, 586-598.	0.1	72
105	Estimates of the Regional Distribution of Sea Level Rise over the 1950–2000 Period. Journal of Climate, 2004, 17, 2609-2625.	1.2	531
106	TOPEX/Poseidon and Jason-1: Absolute Calibration in Bass Strait, Australia. Marine Geodesy, 2004, 27, 107-131.	0.9	38
107	Near bottom currents and their relation to the transport in the Kuroshio Extension. Geophysical Research Letters, 2004, 31, .	1.5	11
108	Absolute Calibration of TOPEX/Poseidon and Jason-1 Using GPS Buoys in Bass Strait, Australia Special Issue: Jason-1 Calibration/Validation. Marine Geodesy, 2003, 26, 285-304.	0.9	58

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109	Does the nonlinearity of the equation of state impose an upper bound on the buoyancy frequency?. Journal of Marine Research, 2003, 61, 745-764.	0.3	8
110	A 6 year record of baroclinic transport variability of the Antarctic Circumpolar Current at 140°E derived from expendable bathythermograph and altimeter measurements. Journal of Geophysical Research, 2002, 107, 19-1.	3.3	45
111	Freshwater and Heat Changes in the North and South Pacific Oceans between the 1960s and 1985–94. Journal of Climate, 2001, 14, 1613-1633.	1.2	54
112	Comparison of results from several AOGCMs for global and regional sea-level change 1900-2100. Climate Dynamics, 2001, 18, 225-240.	1.7	139
113	CLIMATE CHANGE: How Fast Are Sea Levels Rising?. Science, 2001, 294, 802-803.	6.0	33
114	East Australian Current volume transports at 30°S: Estimates from the World Ocean Circulation Experiment hydrographic sections PR11/P6 and the PCM3 current meter array. Journal of Geophysical Research, 2000, 105, 28509-28526.	3.3	83
115	Large-scale freshening of intermediate waters in the Pacific and Indian oceans. Nature, 1999, 400, 440-443.	13.7	245
116	Transports across the Tasman Sea from WOCE repeat sections: The East Australian Current 1990–94. New Zealand Journal of Marine and Freshwater Research, 1997, 31, 469-475.	0.8	19
117	A mechanism for near-shore concentration and estuarine recruitment of post-larval Penaeus plebejus hess (Decapoda, Penaeidae). Estuarine, Coastal and Shelf Science, 1995, 40, 115-138.	0.9	58
118	Processes controlling the larval dispersal and postlarval recruitment of penaeid prawns. Coastal and Estuarine Studies, 1994, , 235-252.	0.4	12
119	Surface Eddy Momentum Flux and Velocity Variances in the Southern Ocean from Geosat Altimetry. Journal of Physical Oceanography, 1994, 24, 2050-2071.	0.7	146
120	A southern hemisphere verification for the TOPEX/POSEIDON satellite altimeter mission. Journal of Geophysical Research, 1994, 99, 24505.	3.3	28
121	The Prediction of Wind-Forced Currents and Sea Level on the Southeast Australian Continental Shelf. Journal of Physical Oceanography, 1994, 24, 2695-2702.	0.7	1
122	Warming of the water column in the southwest Pacific Ocean. Nature, 1992, 357, 59-62.	13.7	96
123	Eddy momentum flux and its contribution to the Southern Ocean momentum balance. Nature, 1992, 357, 482-484.	13.7	82
124	Ocean heat transport across 24°N in the Pacific. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 297-324.	1.6	173
125	The Leeuwin Current off Western Australia, 1986–1987. Journal of Physical Oceanography, 1991, 21, 323-345.	0.7	220
126	Linear systems analysis of momentum on the continental shelf and slope of the central Great Barrier Reef. Journal of Geophysical Research, 1991, 96, 22169-22190.	3.3	22

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127	A Model of Sea Level Rise Caused by Ocean Thermal Expansion. Journal of Climate, 1991, 4, 438-456.	1.2	103
128	Energy Conservation in the Australian Coastal Experiment: Coastal-Trapped Wave Calculations. Journal of Physical Oceanography, 1990, 20, 1113-1114.	0.7	0
129	Current and Density Observations across the Wake of Hurricane Gay. Journal of Physical Oceanography, 1989, 19, 259-265.	0.7	19
130	Currents off south-eastern Australia: results from the Australian coastal experiment. Marine and Freshwater Research, 1988, 39, 245.	0.7	49
131	The Energy Source for the Coastal-Trapped Waves in the Australian Coastal Experiment Region. Journal of Physical Oceanography, 1987, 17, 289-300.	0.7	33
132	The Australian Coastal Experiment: A Search for Coastal-Trapped Waves. Journal of Physical Oceanography, 1986, 16, 1230-1249.	0.7	70
133	Pitfalls with the Numerical Representation of Isopycnal Diapycnal Mixing. Journal of Physical Oceanography, 1986, 16, 196-199.	0.7	46
134	Coastal-Trapped Waves on the East Australian Continental Shelf Part I: Propagation of Modes. Journal of Physical Oceanography, 1986, 16, 1929-1943.	0.7	52
135	Coastal-Trapped Waves on the East Australian Continental Shelf Part II: Model Verification. Journal of Physical Oceanography, 1986, 16, 1945-1957.	0.7	32
136	Modelling the advection of vertically migrating shrimp larvae. Journal of Marine Research, 1983, 41, 511-538.	0.3	101
137	A Permanent Undercurrent Adjacent to the Great Barrier Reef. Journal of Physical Oceanography, 1983, 13, 1747-1749.	0.7	40
138	The East Australian current 1978. Deep-sea Research Part A, Oceanographic Research Papers, 1981, 28, 937-957.	1.6	68