

Benoit Meyssignac

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

4,650
citations

109321

35
h-index

106344

65
g-index

102
all docs

102
docs citations

102
times ranked

4997
citing authors

#	ARTICLE	IF	CITATIONS
1	The rate of sea-level rise. <i>Nature Climate Change</i> , 2014, 4, 358-361.	18.8	299
2	An imperative to monitor Earth's energy imbalance. <i>Nature Climate Change</i> , 2016, 6, 138-144.	18.8	284
3	Local sea level trends, accelerations and uncertainties over 1993â€“2019. <i>Scientific Data</i> , 2021, 8, 1.	5.3	255
4	Sea level variations at tropical Pacific islands since 1950. <i>Global and Planetary Change</i> , 2012, 80-81, 85-98.	3.5	236
5	Improved sea level record over the satellite altimetry era (1993â€“2010) from the Climate Change Initiative project. <i>Ocean Science</i> , 2015, 11, 67-82.	3.4	205
6	A global analysis of subsidence, relative sea-level change and coastal flood exposure. <i>Nature Climate Change</i> , 2021, 11, 338-342.	18.8	193
7	Under-estimated wave contribution to coastal sea-level rise. <i>Nature Climate Change</i> , 2018, 8, 234-239.	18.8	192
8	New estimate of the current rate of sea level rise from a sea level budget approach. <i>Geophysical Research Letters</i> , 2017, 44, 3744-3751.	4.0	179
9	The Ocean Reanalyses Intercomparison Project (ORA-IP). <i>Journal of Operational Oceanography</i> , 2015, 8, s80-s97.	1.2	169
10	Sea level: A review of present-day and recent-past changes and variability. <i>Journal of Geodynamics</i> , 2012, 58, 96-109.	1.6	141
11	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	123
12	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	2.6	119
13	Approaches to evaluate the recent impacts of sea-level rise on shoreline changes. <i>Earth-Science Reviews</i> , 2014, 138, 47-60.	9.1	100
14	Uncertainty in satellite estimates of global mean sea-level changes, trend and acceleration. <i>Earth System Science Data</i> , 2019, 11, 1189-1202.	9.9	97
15	Copernicus Marine Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2018, 11, S1-S142.	1.2	96
16	An Assessment of Two-Dimensional Past Sea Level Reconstructions Over 1950â€“2009 Based on Tide-Gauge Data and Different Input Sea Level Grids. <i>Surveys in Geophysics</i> , 2012, 33, 945-972.	4.6	94
17	Requirements for a Coastal Hazards Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	92
18	The Copernicus Marine Environment Monitoring Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2016, 9, s235-s320.	1.2	86

#	ARTICLE	IF	CITATIONS
19	Tropical Pacific spatial trend patterns in observed sea level: internal variability and/or anthropogenic signature?. <i>Climate of the Past</i> , 2012, 8, 787-802.	3.4	81
20	Estimating ENSO Influence on the Global Mean Sea Level, 1993â€“2010. <i>Marine Geodesy</i> , 2012, 35, 82-97.	2.0	76
21	Past terrestrial water storage (1980â€“2008) in the Amazon Basin reconstructed from GRACE and in situ river gauging data. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 533-546.	4.9	64
22	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. <i>Journal of Climate</i> , 2017, 30, 8539-8563.	3.2	64
23	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. <i>Journal of Climate</i> , 2017, 30, 8565-8593.	3.2	57
24	Spatial trend patterns in the Pacific Ocean sea level during the altimetry era: the contribution of thermocline depth change and internal climate variability. <i>Ocean Dynamics</i> , 2015, 65, 341-356.	2.2	56
25	Exploring the uncertainty in GRACE estimates of the mass redistributions at the Earth surface: implications for the global water and sea level budgets. <i>Geophysical Journal International</i> , 2018, 215, 415-430.	2.4	52
26	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	51
27	The Sea Level Budget Since 2003: Inference on the Deep Ocean Heat Content. <i>Surveys in Geophysics</i> , 2015, 36, 209-229.	4.6	48
28	What dominates sea level at the coast: a case study for the Gulf of Guinea. <i>Ocean Dynamics</i> , 2016, 66, 623-636.	2.2	48
29	Quantifying uncertainties on regional sea level change induced by multidecadal intrinsic oceanic variability. <i>Geophysical Research Letters</i> , 2016, 43, 8151-8159.	4.0	48
30	Contribution of Wave Setup to Projected Coastal Sea Level Changes. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016078.	2.6	48
31	Sea level budget over 2005â€“2013: missing contributions and data errors. <i>Ocean Science</i> , 2015, 11, 789-802.	3.4	47
32	Copernicus Marine Service Ocean State Report, Issue 4. <i>Journal of Operational Oceanography</i> , 2020, 13, S1-S172.	1.2	47
33	Is anthropogenic sea level fingerprint already detectable in the Pacific Ocean?. <i>Environmental Research Letters</i> , 2015, 10, 084024.	5.2	44
34	Regional sea level change and variability in the Caribbean sea since 1950. <i>Journal of Geodetic Science</i> , 2012, 2, 125-133.	1.0	41
35	Regional sea level variability, total relative sea level rise and its impacts on islands and coastal zones of Indian Ocean over the last sixty years. <i>Global and Planetary Change</i> , 2014, 116, 54-67.	3.5	39
36	Tide gaugeâ€“based sea level variations since 1950 along the Norwegian and Russian coasts of the Arctic Ocean: Contribution of the steric and mass components. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36

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37	Effect of the processing methodology on satellite altimetry-based global mean sea level rise over the Jason-1 operating period. <i>Journal of Geodesy</i> , 2014, 88, 351-361.	3.6	36
38	Global ocean freshening, ocean mass increase and global mean sea level rise over 2005–2015. <i>Scientific Reports</i> , 2019, 9, 17717.	3.3	35
39	Two-dimensional reconstruction of the Mediterranean sea level over 1970–2006 from tide gage data and regional ocean circulation model outputs. <i>Global and Planetary Change</i> , 2011, 77, 49-61.	3.5	33
40	Observational Requirements for Long-Term Monitoring of the Global Mean Sea Level and Its Components Over the Altimetry Era. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	31
41	Decadal variability of net water flux at the Mediterranean Sea Gibraltar Strait. <i>Global and Planetary Change</i> , 2013, 100, 1-10.	3.5	30
42	Likely and High-End Impacts of Regional Sea-Level Rise on the Shoreline Change of European Sandy Coasts Under a High Greenhouse Gas Emissions Scenario. <i>Water (Switzerland)</i> , 2019, 11, 2607.	2.7	30
43	Causes of the Regional Variability in Observed Sea Level, Sea Surface Temperature and Ocean Colour Over the Period 1993–2011. <i>Surveys in Geophysics</i> , 2017, 38, 187-215.	4.6	28
44	Improving sea level simulation in Mediterranean regional climate models. <i>Climate Dynamics</i> , 2018, 51, 1167-1178.	3.8	28
45	Interannual Sea Level Variations in the South China Sea Over 1950–2009. <i>Marine Geodesy</i> , 2013, 36, 164-182.	2.0	27
46	Total land water storage change over 2003–2013 estimated from a global mass budget approach. <i>Environmental Research Letters</i> , 2015, 10, 124010.	5.2	27
47	Explaining the Spread in Global Mean Thermosteric Sea Level Rise in CMIP5 Climate Models*. <i>Journal of Climate</i> , 2015, 28, 9918-9940.	3.2	26
48	Calibration of Envisat radar altimeter over Lake Issykkul. <i>Advances in Space Research</i> , 2013, 51, 1523-1541.	2.6	25
49	Potential of Video Cameras in Assessing Event and Seasonal Coastline Behaviour: Grand Popo, Benin (Gulf of Guinea). <i>Journal of Coastal Research</i> , 2016, 75, 442-446.	0.3	22
50	Depth-dependent temperature change contributions to global mean thermosteric sea level rise from 1960 to 2010. <i>Global and Planetary Change</i> , 2013, 101, 113-118.	3.5	21
51	Consistency of Satellite Climate Data Records for Earth System Monitoring. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1948-E1971.	3.3	21
52	Exploring the relation between sea level rise and shoreline erosion using sea level reconstructions: an example in French Polynesia. <i>Journal of Coastal Research</i> , 2013, 165, 2137-2142.	0.3	20
53	Contributions of Atmospheric Forcing and Chaotic Ocean Variability to Regional Sea Level Trends Over 1993–2015. <i>Geophysical Research Letters</i> , 2018, 45, 13,405.	4.0	20
54	Steric sea level variations over 2004–2010 as a function of region and depth: Inference on the mass component variability in the North Atlantic Ocean. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	19

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55	Sea Level at the Coast from Video-Sensed Waves: Comparison to Tidal Gauges and Satellite Altimetry. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1591-1603.	1.3	19
56	Regional distribution of steric and mass contributions to sea level changes. <i>Global and Planetary Change</i> , 2011, 76, 206-218.	3.5	18
57	Robustness of observation-based decadal sea level variability in the Indo-Pacific Ocean. <i>Geophysical Research Letters</i> , 2017, 44, 7391-7400.	4.0	18
58	Regional Sea Level Changes for the Twentieth and the Twenty-First Centuries Induced by the Regional Variability in Greenland Ice Sheet Surface Mass Loss. <i>Journal of Climate</i> , 2017, 30, 2011-2028.	3.2	15
59	Monitoring the ocean heat content change and the Earth energy imbalance from space altimetry and space gravimetry. <i>Earth System Science Data</i> , 2022, 14, 229-249.	9.9	15
60	Pegase: a space-based nulling interferometer. , 2006, , .		13
61	A captured asteroid : Our David's stone for shielding earth and providing the cheapest extraterrestrial material. <i>Acta Astronautica</i> , 2006, 59, 77-83.	3.2	13
62	Vertical ground motion and historical sea-level records in Dakar (Senegal). <i>Environmental Research Letters</i> , 2015, 10, 084016.	5.2	13
63	Regional Sea Level Variability and Trends, 1960–2007: A Comparison of Sea Level Reconstructions and Ocean Syntheses. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9068-9091.	2.6	12
64	Copernicus Sea Level Space Observations: A Basis for Assessing Mitigation and Developing Adaptation Strategies to Sea Level Rise. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	12
65	Sea and land surface temperatures, ocean heat content, Earth's energy imbalance and net radiative forcing over the recent years. <i>International Journal of Climatology</i> , 2017, 37, 218-229.	3.5	11
66	Detecting a forced signal in satellite-era sea-level change. <i>Environmental Research Letters</i> , 2020, 15, 094079.	5.2	11
67	Interannual variations in degree-2 Earth's gravity coefficients C _{2,0} , C _{2,2} , and S _{2,2} reveal large-scale mass transfers of climatic origin. <i>Geophysical Research Letters</i> , 2013, 40, 4060-4065.	4.0	10
68	Reconstruction of Local Sea Levels at South West Pacific Islands—A Multiple Linear Regression Approach (1988–2014). <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1502-1518.	2.6	9
69	Contributions to Coastal Flooding Events in Southeast of Vietnam and their link with Global Mean Sea Level Rise. <i>Geosciences (Switzerland)</i> , 2018, 8, 437.	2.2	9
70	Effect of La Niña on The Global Mean Sea Level And North Pacific Ocean Mass Over 2005-2011. <i>Journal of Geodetic Science</i> , 2014, 4, .	1.0	8
71	Sea-Level Variations Measured by the New Altimetry Mission SARAL/AltiKa and its Validation Based on Spatial Patterns and Temporal Curves Using Jason-2, Tide Gauge Data and an Overview of the Annual Sea Level Budget. <i>Marine Geodesy</i> , 2015, 38, 339-353.	2.0	4
72	Guest Editorial: Relationships Between Coastal Sea Level and Large-Scale Ocean Circulation. <i>Surveys in Geophysics</i> , 2019, 40, 1245-1249.	4.6	4

#	ARTICLE	IF	CITATIONS
73	Reply to "Waves do not contribute to global sea-level rise"™. Nature Climate Change, 2019, 9, 3-3.	18.8	3
74	Observational Constraint on Greenhouse Gas and Aerosol Contributions to Global Ocean Heat Content Changes. Journal of Climate, 2020, 33, 10579-10591.	3.2	3
75	Observational Constraint on the Climate Sensitivity to Atmospheric CO2 Concentrations Changes Derived from the 1971-2017 Global Energy Budget. Journal of Climate, 2022, 35, 4469-4483.	3.2	3
76	Causes of the Regional Variability in Observed Sea Level, Sea Surface Temperature and Ocean Colour Over the Period 1993-2011. Space Sciences Series of ISSI, 2017, , 191-219.	0.0	2
77	Le niveau de la mer : variations passées, présentes et futures. La Météorologie, 2015, 8, 69.	0.5	1
78	Under-estimated wave contribution to coastal sea-level rise. , 0, .		1