Benoit Meyssignac

List of Publications by Year
in descending order

78	4,650	109321 35	106344 65
papers	citations	h-index	g-index

102	102	102	4997
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monitoring the ocean heat content change and the Earth energy imbalance from space altimetry and space gravimetry. Earth System Science Data, 2022, 14, 229-249.	9.9	15
2	Observational Constraint on the Climate Sensitivity to Atmospheric CO2 Concentrations Changes Derived from the 1971â€“2017 Global Energy Budget. Journal of Climate, 2022, 35, 4469-4483.	3.2	3
3	A global analysis of subsidence, relative sea-level change and coastal flood exposure. Nature Climate Change, 2021, 11, 338-342.	18.8	193
4	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	2.6	119
5	Local sea level trends, accelerations and uncertainties over 1993â€“2019. Scientific Data, 2021, 8, 1.	5.3	255
6	Copernicus Sea Level Space Observations: A Basis for Assessing Mitigation and Developing Adaptation Strategies to Sea Level Rise. Frontiers in Marine Science, 2021, 8, .	2.5	12
7	Copernicus Marine Service Ocean State Report, Issue 4. Journal of Operational Oceanography, 2020, 13, S1-S172.	1.2	47
8	Contribution of Wave Setup to Projected Coastal Sea Level Changes. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016078.	2.6	48
9	Observational Constraint on Greenhouse Gas and Aerosol Contributions to Global Ocean Heat Content Changes. Journal of Climate, 2020, 33, 10579-10591.	3.2	3
10	Detecting a forced signal in satellite-era sea-level change. Environmental Research Letters, 2020, 15, 094079.	5.2	11
11	Consistency of Satellite Climate Data Records for Earth System Monitoring. Bulletin of the American Meteorological Society, 2020, 101, E1948-E1971.	3.3	21
12	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. Frontiers in Marine Science, 2019, 6, .	2.5	51
13	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. Frontiers in Marine Science, 2019, 6, .	2.5	123
14	Guest Editorial: Relationships Between Coastal Sea Level and Large-Scale Ocean Circulation. Surveys in Geophysics, 2019, 40, 1245-1249.	4.6	4
15	Sea Level at the Coast from Video-Sensed Waves: Comparison to Tidal Gauges and Satellite Altimetry. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1591-1603.	1.3	19
16	Requirements for a Coastal Hazards Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	92
17	Observational Requirements for Long-Term Monitoring of the Global Mean Sea Level and Its Components Over the Altimetry Era. Frontiers in Marine Science, 2019, 6, .	2.5	31
18	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. Water (Switzerland), 2019, 11, 2607.	2.7	30

#	Article	IF	Citations
19	Global ocean freshening, ocean mass increase and global mean sea level rise over 2005â€“2015. Scientific Reports, 2019, 9, 17717.	3.3	35
20	Reply to â€˜Waves do not contribute to global sea-level riseâ€™. Nature Climate Change, 2019, 9, 3-3.	18.8	3
21	Uncertainty in satellite estimates of global mean sea-level changes, trend and acceleration. Earth System Science Data, 2019, 11, 1189-1202.	9.9	97
22	Under-estimated wave contribution to coastal sea-level rise. Nature Climate Change, 2018, 8, 234-239.	18.8	192
23	Reconstruction of Local Sea Levels at South West Pacific Islandsâ€”A Multiple Linear Regression Approach (1988â€“2014). Journal of Geophysical Research: Oceans, 2018, 123, 1502-1518.	2.6	9
24	Improving sea level simulation in Mediterranean regional climate models. Climate Dynamics, 2018, 51, 1167-1178.	3.8	28
25	Contributions to Coastal Flooding Events in Southeast of Vietnam and their link with Global Mean Sea Level Rise. Geosciences (Switzerland), 2018, 8, 437.	2.2	9
26	Contributions of Atmospheric Forcing and Chaotic Ocean Variability to Regional Sea Level Trends Over 1993â€“2015. Geophysical Research Letters, 2018, 45, 13,405.	4.0	20
27	Copernicus Marine Service Ocean State Report. Journal of Operational Oceanography, 2018, 11, S1-S142.	1.2	96
28	Exploring the uncertainty in GRACE estimates of the mass redistributions at the Earth surface: implications for the global water and sea level budgets. Geophysical Journal International, 2018, 215, 415-430.	2.4	52
29	Sea and land surface temperatures, ocean heat content, Earth's energy imbalance and net radiative forcing over the recent years. International Journal of Climatology, 2017, 37, 218-229.	3.5	11
30	Causes of the Regional Variability in Observed Sea Level, Sea Surface Temperature and Ocean Colour Over the Period 1993â€“2011. Space Sciences Series of ISSI, 2017, , 191-219.	0.0	2
31	New estimate of the current rate of sea level rise from a sea level budget approach. Geophysical Research Letters, 2017, 44, 3744-3751.	4.0	179
32	Regional Sea Level Variability and Trends, 1960â€“2007: A Comparison of Sea Level Reconstructions and Ocean Syntheses. Journal of Geophysical Research: Oceans, 2017, 122, 9068-9091.	2.6	12
33	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. Journal of Climate, 2017, 30, 8565-8593.	3.2	57
34	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. Journal of Climate, 2017, 30, 8539-8563.	3.2	64
35	Robustness of observationâ€based decadal sea level variability in the Indoâ€Pacific Ocean. Geophysical Research Letters, 2017, 44, 7391-7400.	4.0	18
36	Regional Sea Level Changes for the Twentieth and the Twenty-First Centuries Induced by the Regional Variability in Greenland Ice Sheet Surface Mass Loss. Journal of Climate, 2017, 30, 2011-2028.	3.2	15

#	Article	IF	Citations
37	Causes of the Regional Variability in Observed Sea Level, Sea Surface Temperature and Ocean Colour Over the Period 1993â€“2011. Surveys in Geophysics, 2017, 38, 187-215.	4.6	28
38	The Copernicus Marine Environment Monitoring Service Ocean State Report. Journal of Operational Oceanography, 2016, 9, s235-s320.	1.2	86
39	Potential of Video Cameras in Assessing Event and Seasonal Coastline Behaviour: Grand Popo, Benin (Gulf of Guinea). Journal of Coastal Research, 2016, 75, 442-446.	0.3	22
40	What dominates sea level at the coast: a case study for the Gulf of Guinea. Ocean Dynamics, 2016, 66, 623-636.	2.2	48
41	Quantifying uncertainties on regional sea level change induced by multidecadal intrinsic oceanic variability. Geophysical Research Letters, 2016, 43, 8151-8159.	4.0	48
42	An imperative to monitor Earth's energy imbalance. Nature Climate Change, 2016, 6, 138-144.	18.8	284
43	Total land water storage change over 2003â€“2013 estimated from a global mass budget approach. Environmental Research Letters, 2015, 10, 124010.	5.2	27
44	Is anthropogenic sea level fingerprint already detectable in the Pacific Ocean?. Environmental Research Letters, 2015, 10, 084024.	5.2	44
45	Le niveau de la mer : variations passÃ©es, prÃ©sentes et futures. La MÃ©tÃ©orologie, 2015, 8, 69.	0.5	1
46	Improved sea level record over the satellite altimetry era (1993â€“2010) from the Climate Change Initiative project. Ocean Science, 2015, 11, 67-82.	3.4	205
47	Sea level budget over 2005â€“2013: missing contributions and data errors. Ocean Science, 2015, 11, 789-802.	3.4	47
48	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. Marine Geodesy, 2015, 38, 339-353.	2.0	4
49	The Ocean Reanalyses Intercomparison Project (ORA-IP). Journal of Operational Oceanography, 2015, 8, s80-s97.	1.2	169
50	Spatial trend patterns in the Pacific Ocean sea level during the altimetry era: the contribution of thermocline depth change and internal climate variability. Ocean Dynamics, 2015, 65, 341-356.	2.2	56
51	The Sea Level Budget Since 2003: Inference on the Deep Ocean Heat Content. Surveys in Geophysics, 2015, 36, 209-229.	4.6	48
52	Explaining the Spread in Global Mean Thermosteric Sea Level Rise in CMIP5 Climate Models*. Journal of Climate, 2015, 28, 9918-9940.	3.2	26
53	Vertical ground motion and historical sea-level records in Dakar (Senegal). Environmental Research Letters, 2015, 10, 084016.	5.2	13
54	Effect of the processing methodology on satellite altimetry-based global mean sea level rise over the Jason-1 operating period. Journal of Geodesy, 2014, 88, 351-361.	3.6	36

#	Article	IF	Citations
55	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. Global and Planetary Change, 2014, 116, 54-67.	3.5	39
56	Effect of La NiÃ±a on The Global Mean Sea Level And North Pacifc Ocean Mass Over 2005-2011. Journal of Geodetic Science, 2014, 4, .	1.0	8
57	Approaches to evaluate the recent impacts of sea-level rise on shoreline changes. Earth-Science Reviews, 2014, 138, 47-60.	9.1	100
58	The rate of sea-level rise. Nature Climate Change, 2014, 4, 358-361.	18.8	299
59	Depth-dependent temperature change contributions to global mean thermosteric sea level rise from 1960 to 2010. Global and Planetary Change, 2013, 101, 113-118.	3.5	21
60	Decadal variability of net water flux at the Mediterranean Sea Gibraltar Strait. Global and Planetary Change, 2013, 100, 1-10.	3.5	30
61	Calibration of Envisat radar altimeter over Lake Issykkul. Advances in Space Research, 2013, 51, 1523-1541.	2.6	25
62	Interannual Sea Level Variations in the South China Sea Over 1950â€“2009. Marine Geodesy, 2013, 36, 164-182.	2.0	27
63	Interannual variations in degree-2 Earth's gravity coefficients C2,0, C2,2, and S2,2reveal large-scale mass transfers of climatic origin. Geophysical Research Letters, 2013, 40, 4060-4065.	4.0	10
64	Exploring the relation between sea level rise and shoreline erosion using sea level reconstructions: an example in French Polynesia. Journal of Coastal Research, 2013, 165, 2137-2142.	0.3	20
65	Regional sea level change and variability in the Caribbean sea since 1950. Journal of Geodetic Science, 2012, 2, 125-133.	1.0	41
66	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. Journal of Geophysical Research, 2012, 117, .	3.3	36
67	Estimating ENSO Influence on the Global Mean Sea Level, 1993â€“2010. Marine Geodesy, 2012, 35, 82-97.	2.0	76
68	Sea level: A review of present-day and recent-past changes and variability. Journal of Geodynamics, 2012, 58, 96-109.	1.6	141
69	Sea level variations at tropical Pacific islands since 1950. Global and Planetary Change, 2012, 80-81, 85-98.	3.5	236
70	Tropical Pacific spatial trend patterns in observed sea level: internal variability and/or anthropogenic signature?. Climate of the Past, 2012, 8, 787-802.	3.4	81
71	An Assessment of Two-Dimensional Past Sea Level Reconstructions Over 1950â€“2009 Based on Tide-Gauge Data and Different Input Sea Level Grids. Surveys in Geophysics, 2012, 33, 945-972.	4.6	94
72	Steric sea level variations over 2004â€“2010 as a function of region and depth: Inference on the mass component variability in the North Atlantic Ocean. Geophysical Research Letters, 2011, 38, .	4.0	19

#	Article	IF	Citations
73	Regional distribution of steric and mass contributions to sea level changes. Global and Planetary Change, 2011, 76, 206-218.	3.5	18
74	Two-dimensional reconstruction of the Mediterranean sea level over 1970â€“2006 from tide gage data and regional ocean circulation model outputs. Global and Planetary Change, 2011, 77, 49-61.	3.5	33
75	Past terrestrial water storage (1980â€“2008) in the Amazon Basin reconstructed from GRACE and in situ river gauging data. Hydrology and Earth System Sciences, 2011, 15, 533-546.	4.9	64
76	Pegase: a space-based nulling interferometer. , 2006, , .		13
77	A captured asteroid : Our David's stone for shielding earth and providing the cheapest extraterrestrial material. Acta Astronautica, 2006, 59, 77-83.	3.2	13
78	Under-estimated wave contribution to coastal sea-level rise. , 0, .		1