

Lorenzo Mentaschi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,849
citations

159585

30
h-index

243625

44
g-index

63
all docs

63
docs citations

63
times ranked

4505
citing authors

#	ARTICLE	IF	CITATIONS
1	Urban heat island mitigation by green infrastructure in European Functional Urban Areas. Sustainable Cities and Society, 2022, 77, 103564.	10.4	106
2	Global long-term mapping of surface temperature shows intensified intra-city urban heat island extremes. Global Environmental Change, 2022, 72, 102441.	7.8	34
3	African heritage sites threatened as sea-level rise accelerates. Nature Climate Change, 2022, 12, 256-262.	18.8	53
4	A global ensemble of ocean wave climate statistics from contemporary wave reanalysis and hindcasts. Scientific Data, 2022, 9, .	5.3	16
5	Drivers of future fluvial flood risk change for residential buildings in Europe. Global Environmental Change, 2022, 76, 102559.	7.8	9
6	Trends and variability of ocean waves under RCP8.5 emission scenario in the Mediterranean Sea. Ocean Dynamics, 2021, 71, 97-117.	2.2	42
7	Increased economic drought impacts in Europe with anthropogenic warming. Nature Climate Change, 2021, 11, 485-491.	18.8	123
8	Uncertainty and Bias in Global to Regional Scale Assessments of Current and Future Coastal Flood Risk. Earth's Future, 2021, 9, e2020EF001882.	6.3	35
9	Global-scale changes to extreme ocean wave events due to anthropogenic warming. Environmental Research Letters, 2021, 16, 074056.	5.2	29
10	Extreme sea levels at different global warming levels. Nature Climate Change, 2021, 11, 746-751.	18.8	111
11	European Copernicus Services to Inform on Sea-Level Rise Adaptation: Current Status and Perspectives. Frontiers in Marine Science, 2021, 8, .	2.5	11
12	A Pan-European high resolution storm surge hindcast. Environment International, 2020, 135, 105367.	10.0	10
13	More meteorological events that drive compound coastal flooding are projected under climate change. Communications Earth & Environment, 2020, 1, 47.	6.8	78
14	Assessment of global wave models on regular and unstructured grids using the Unresolved Obstacles Source Term. Ocean Dynamics, 2020, 70, 1475-1483.	2.2	8
15	Reply to: Sandy beaches can survive sea-level rise. Nature Climate Change, 2020, 10, 996-997.	18.8	15
16	Economic motivation for raising coastal flood defenses in Europe. Nature Communications, 2020, 11, 2119.	12.8	125
17	Sandy coastlines under threat of erosion. Nature Climate Change, 2020, 10, 260-263.	18.8	411
18	A global ensemble of ocean wave climate projections from CMIP5-driven models. Scientific Data, 2020, 7, 105.	5.3	55

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19	Independence of Future Changes of River Runoff in Europe from the Pathway to Global Warming. <i>Climate</i> , 2020, 8, 22.	2.8	12
20	Diverging hydrological drought traits over Europe with global warming. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5919-5935.	4.9	21
21	Robustness and uncertainties in global multivariate wind-wave climate projections. <i>Nature Climate Change</i> , 2019, 9, 711-718.	18.8	221
22	Higher probability of compound flooding from precipitation and storm surge in Europe under anthropogenic climate change. <i>Science Advances</i> , 2019, 5, eaaw5531.	10.3	239
23	Increased Extreme Coastal Water Levels Due to the Combined Action of Storm Surges and Wind Waves. <i>Geophysical Research Letters</i> , 2019, 46, 4356-4364.	4.0	86
24	alphaBetaLab: Automatic estimation of subscale transparencies for the Unresolved Obstacles Source Term in ocean wave modelling. <i>SoftwareX</i> , 2019, 9, 1-6.	2.6	5
25	Towards robust pan-European storm surge forecasting. <i>Ocean Modelling</i> , 2019, 133, 129-144.	2.4	38
26	Global Changes in Drought Conditions Under Different Levels of Warming. <i>Geophysical Research Letters</i> , 2018, 45, 3285-3296.	4.0	442
27	Extreme heat waves under 1.5°C and 2°C global warming. <i>Environmental Research Letters</i> , 2018, 13, 054006.	5.2	262
28	Understanding epistemic uncertainty in large-scale coastal flood risk assessment for present and future climates. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2127-2142.	3.6	46
29	Global long-term observations of coastal erosion and accretion. <i>Scientific Reports</i> , 2018, 8, 12876.	3.3	373
30	Climate change impacts on critical international transportation assets of Caribbean Small Island Developing States (SIDS): the case of Jamaica and Saint Lucia. <i>Regional Environmental Change</i> , 2018, 18, 2211-2225.	2.9	60
31	Climatic and socioeconomic controls of future coastal flood risk in Europe. <i>Nature Climate Change</i> , 2018, 8, 776-780.	18.8	182
32	Parameterizing unresolved obstacles with source terms in wave modeling: A real-world application. <i>Ocean Modelling</i> , 2018, 126, 77-84.	2.4	9
33	Global probabilistic projections of extreme sea levels show intensification of coastal flood hazard. <i>Nature Communications</i> , 2018, 9, 2360.	12.8	397
34	Global changes of extreme coastal wave energy fluxes triggered by intensified teleconnection patterns. <i>Geophysical Research Letters</i> , 2017, 44, 2416-2426.	4.0	135
35	Extreme sea levels on the rise along Europe's coasts. <i>Earth's Future</i> , 2017, 5, 304-323.	6.3	225
36	Time clustering of wave storms in the Mediterranean Sea. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 505-514.	3.6	19

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37	Developments in large-scale coastal flood hazard mapping. Natural Hazards and Earth System Sciences, 2016, 16, 1841-1853.	3.6	144
38	The transformed-stationary approach: a generic and simplified methodology for non-stationary extreme value analysis. Hydrology and Earth System Sciences, 2016, 20, 3527-3547.	4.9	48
39	Wave energy resource assessment in the Mediterranean Sea on the basis of a 35-year hindcast. Energy, 2016, 94, 50-63.	8.8	134
40	Performance evaluation of Wavewatch III in the Mediterranean Sea. Ocean Modelling, 2015, 90, 82-94.	2.4	161
41	A preliminary wave energy exploitation assessment in the Northern Tyrrhenian sea. , 2015, , .		0
42	METOC-driven vessel interdiction system (MVIS): Supporting decision making in Command and Control (C2) systems. , 2015, , .		8
43	Parameterization of unresolved obstacles in wave modelling: A source term approach. Ocean Modelling, 2015, 96, 93-102.	2.4	11
44	Comparing different extreme wave analysis models for wave climate assessment along the Italian coast. Coastal Engineering, 2015, 100, 37-47.	4.0	36
45	Evaluating third generation wave spectral models performances in coastal areas. An application to Eastern Liguria. , 2015, , .		1
46	Problems in RMSE-based wave model validations. Ocean Modelling, 2013, 72, 53-58.	2.4	176
47	Developing and validating a forecast/hindcast system for the Mediterranean Sea. Journal of Coastal Research, 2013, 165, 1551-1556.	0.3	63