Ap van Dongeren

List of Publications by Year
in descending order

73 papers	4,420 citations	147726 31 h-index	106281 65 g-index
82 all docs	82 docs citations	82 times ranked	2396 citing authors

#	Article	IF	Citations
1	Modelling storm impacts on beaches, dunes and barrier islands. Coastal Engineering, 2009, 56, 1133-1152.	1.7	1,033
2	Two-dimensional time dependent hurricane overwash and erosion modeling at Santa Rosa Island. Coastal Engineering, 2010, 57, 668-683.	1.7	294
3	Most atolls will be uninhabitable by the mid-21st century because of sea-level rise exacerbating wave-driven flooding. Science Advances, 2018, 4, eaap9741.	4.7	279
4	The influence of coral reefs and climate change on wave-driven flooding of tropical coastlines. Geophysical Research Letters, 2015, 42, 6407-6415.	1.5	198
5	Shoaling of subharmonic gravity waves. Journal of Geophysical Research, 2004, 109, .	3.3	167
6	Infragravity waves: From driving mechanisms to impacts. Earth-Science Reviews, 2018, 177, 774-799.	4.0	165
7	The dynamics of infragravity wave transformation over a fringing reef. Journal of Geophysical Research, 2012, 117, .	3.3	160
8	Numerical modeling of low-frequency wave dynamics over a fringing coral reef. Coastal Engineering, 2013, 73, 178-190.	1.7	143
9	Long waves induced by short-wave groups over a sloping bottom. Journal of Geophysical Research, 2003, 108, .	3.3	128
10	Beach Wizard: Nearshore bathymetry estimation through assimilation of model computations and remote observations. Coastal Engineering, 2008, 55, 1016-1027.	1.7	114
11	Predicting coastal hazards for sandy coasts with a Bayesian Network. Coastal Engineering, 2016, 118, 21-34.	1.7	80
12	Numerical modeling of infragravity wave response during DELILAH. Journal of Geophysical Research, 2003, 108, .	3.3	79
13	Introduction to RISC-KIT: Resilience-increasing strategies for coasts. Coastal Engineering, 2018, 134, 2-9.	1.7	73
14	A Bayesian-Based System to Assess Wave-Driven Flooding Hazards on Coral Reef-Lined Coasts. Journal of Geophysical Research: Oceans, 2017, 122, 10099-10117.	1.0	68
15	Modeling the effect of wave-vegetation interaction on wave setup. Journal of Geophysical Research: Oceans, 2016, 121, 4341-4359.	1.0	67
16	Wave Setup over a Fringing Reef with Large Bottom Roughness. Journal of Physical Oceanography, 2016, 46, 2317-2333.	0.7	63
17	Absorbing-Generating Boundary Condition for Shallow Water Models. Journal of Waterway, Port, Coastal and Ocean Engineering, 1997, 123, 303-313.	0.5	58
18	Modelling gravel barrier profile response to combined waves and tides using XBeach: Laboratory and field results. Coastal Engineering, 2012, 63, 62-80.	1.7	57

#	ARTICLE	IF	CITATIONS
19	Dynamics of Wave Setup over a Steeply Sloping Fringing Reef. Journal of Physical Oceanography, 2015, 45, 3005-3023.	0.7	56
20	Mechanisms of Wave‐Driven Water Level Variability on Reef‐Fringed Coastlines. Journal of Geophysical Research: Oceans, 2018, 123, 3811-3831.	1.0	55
21	Nonhydrostatic and surfbeat model predictions of extreme wave run-up in fringing reef environments. Coastal Engineering, 2018, 137, 11-27.	1.7	55
22	Global distribution of nearshore slopes with implications for coastal retreat. Earth System Science Data, 2019, 11, 1515-1529.	3.7	55
23	Modelling multi-hazard hurricane damages on an urbanized coast with a Bayesian Network approach. Coastal Engineering, 2015, 103, 1-14.	1.7	49
24	Morphological response of a sandy barrier island with a buried seawall during Hurricane Sandy. Coastal Engineering, 2016, 110, 102-110.	1.7	47
25	Uncertainties in projections of sandy beach erosion due to sea level rise: an analysis at the European scale. Scientific Reports, 2020, 10, 11895.	1.6	44
26	Linear modeling of infragravity waves during Delilah. Journal of Geophysical Research, 2002, 107, 1-1.	3.3	42
27	Identification and classification of very low frequency waves on a coral reef flat. Journal of Geophysical Research: Oceans, 2016, 121, 7560-7574.	1.0	38
28	Modeling compound flooding in coastal systems using a computationally efficient reduced-physics solver: Including fluvial, pluvial, tidal, wind- and wave-driven processes. Coastal Engineering, 2021, 163, 103796.	1.7	38
29	Modeling the Morphodynamics of Coastal Responses to Extreme Events: What Shape Are We In?. Annual Review of Marine Science, 2022, 14, 457-492.	5.1	38
30	Spectral wave-driven sediment transport across a fringing reef. Coastal Engineering, 2015, 98, 78-94.	1.7	37
31	Modeling the hydrodynamics and morphodynamics of sandbar migration events. Coastal Engineering, 2021, 166, 103885.	1.7	35
32	Numerical Simulation of Long-Period Waves and Ship Motions in Tomakomai Port, Japan. Coastal Engineering Journal, 2006, 48, 59-79.	0.7	33
33	Rip currents under obliquely incident wind waves and tidal longshore currents. Coastal Engineering, 2014, 89, 106-119.	1.7	33
34	Storm-induced risk assessment: Evaluation of two tools at the regional and hotspot scale. Coastal Engineering, 2018, 134, 241-253.	1.7	31
35	Nonlinear and 3D effects in leaky infragravity waves. Coastal Engineering, 2000, 41, 467-496.	1.7	29
36	RISC-KIT: Resilience-Increasing Strategies for Coasts - toolKIT. Journal of Coastal Research, 2014, 70, 366-371.	0.1	28

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37	Physical and Numerical Modeling of Infragravity Wave Generation and Transformation on Coral Reef Platforms. Journal of Geophysical Research: Oceans, 2019, 124, 1410-1433.	1.0	28
38	Morphodynamic modeling of the response of two barrier islands to Atlantic hurricane forcing. Estuarine, Coastal and Shelf Science, 2019, 229, 106404.	0.9	27
39	HyCReWW: A Hybrid Coral Reef Wave and Water level metamodel. Computers and Geosciences, 2019, 127, 85-90.	2.0	27
40	Using 18th century storm-surge data from the Dutch Coast to improve the confidence in flood-risk estimates. Natural Hazards and Earth System Sciences, 2011, 11, 2791-2801.	1.5	24
41	Validation of an advective-deterministic approach to short wave breaking in a surf-beat model. Coastal Engineering, 2012, 60, 69-83.	1.7	24
42	The importance of explicitly modelling sea-swell waves for runup on reef-lined coasts. Coastal Engineering, 2020, 160, 103704.	1.7	24
43	Improvements in spectral wave modeling in tidal inlet seas. Journal of Geophysical Research, 2012, 117, .	3.3	22
44	Delft Dashboard: a quick set-up tool for hydrodynamic models. Journal of Hydroinformatics, 2020, 22, 510-527.	1.1	21
45	A validation of an operational wave and surge prediction system for the Dutch coast. Natural Hazards and Earth System Sciences, 2015, 15, 1231-1242.	1.5	20
46	Developed barrier island adaptation strategies to hurricane forcing under rising sea levels. Climatic Change, 2017, 143, 173-184.	1.7	20
47	A Boussinesq-type wave driver for a morphodynamical model to predict short-term morphology. Coastal Engineering, 2011, 58, 66-84.	1.7	19
48	Standing infragravity waves over an alongshore irregular rocky bathymetry. Journal of Geophysical Research: Oceans, 2017, 122, 4868-4885.	1.0	19
49	Steps to Develop Early Warning Systems and Future Scenarios of Storm Wave-Driven Flooding Along Coral Reef-Lined Coasts. Frontiers in Marine Science, 2020, 7, .	1.2	19
50	**82.** MICORE: DUNE EROSION AND OVERWASH MODEL VALIDATION WITH DATA FROM NINE EUROPEAN FIELD SITES. , 2009, , .		18
51	Uncertainties in coastal flood risk assessments in small island developing states. Natural Hazards and Earth System Sciences, 2020, 20, 2397-2414.	1.5	15
52	The effect of tides and storms on the sediment transport across a Dutch barrier island. Earth Surface Processes and Landforms, 2018, 43, 579-592.	1.2	14
53	Impact of Coral Reef Mining Pits on Nearshore Hydrodynamics and Wave Runup During Extreme Wave Events. Journal of Geophysical Research: Oceans, 2019, 124, 2824-2841.	1.0	14
54	Nearshore bathymetry from video and the application to rip current predictions for the Dutch Coast. Journal of Coastal Research, 2014, 70, 354-359.	0.1	10

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55	The application of a radar-based depth inversion method to monitor near-shore nourishments on an open sandy coast and an ebb-tidal delta. Coastal Engineering, 2020, 159, 103716.	1.7	10
56	Review of Long Wave Dynamics over Reefs and into Ports with Implication for Port Operations. Journal of Marine Science and Engineering, 2016, 4, 12.	1.2	8
57	LOW FREQUENCY WAVE RESONANCE IN FRINGING REEF ENVIRONMENTS. Coastal Engineering Proceedings, 2012, 1, 25.	0.1	6
58	High-Quality Laboratory Wave Generation for Flumes and Basins. , 2002, , 1190.		5
59	A Clustering Approach for Predicting Dune Morphodynamic Response to Storms Using Typological Coastal Profiles: A Case Study at the Dutch Coast. Frontiers in Marine Science, 2021, 8, .	1.2	5
60	GENERATION OF LONG WAVES BY SHORT WAVE GROUPS. , 2003, , .		4
61	RISC-KIT: Resilience-increasing Strategies for Coasts. E3S Web of Conferences, 2016, 7, 17001.	0.2	4
62	Development of Generic Tools for Coastal Early Warning and Decision Support. E3S Web of Conferences, 2016, 7, 18017.	0.2	4
63	A semi-empirical method for computing storm surges on open coasts during tropical cyclones. Coastal Engineering, 2021, 165, 103839.	1.7	4
64	THE ONR TEST BED FOR COASTAL AND OCEANIC WAVE MODELS. , 2003, , .		4
65	ONLINE OPERATIONAL EARLY WARNING SYSTEM PROTOTYPES TO FORECAST COASTAL STORM IMPACTS (CEWS). Coastal Engineering Proceedings, 2012, 1, 45.	0.1	4
66	A Model-Derived Empirical Formulation for Wave Run-Up on Naturally Sloping Beaches. Journal of Marine Science and Engineering, 2021, 9, 1185.	1.2	4
67	Morphodynamic Response to Wave Group Forcing. , 2001, , 3218.		3
68	A Numerical Study of Geomorphic and Oceanographic Controls on Wave-Driven Runup on Fringing Reefs with Shore-Normal Channels. Journal of Marine Science and Engineering, 2022, 10, 828.	1.2	2
69	Observations of Long Waves on a Uniform Slope. , 2001, , 2192.		1
70	Video Observation of Laboratory Waves. , 2002, , 13.		1
71	HYDRODYNAMIC DRIVERS OF SEDIMENT TRANSPORT ACROSS A FRINGING REEF. Coastal Engineering Proceedings, 2015, 1, 37.	0.1	1
72	Operational prediction of rip currents using numerical model and nearshore bathymetry from video images. AIP Conference Proceedings, 2017, , .	0.3	1

#	Article	IF	Citations
73	Numerical Investigation of Developed and Undeveloped Barrier Island Response to Hurricane Sandy. , 2017, , .		0