

# Ad J H M Reniers

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

4,528  
citations

126858

33  
h-index

106281

65  
g-index

108  
all docs

108  
docs citations

108  
times ranked

2629  
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	Rip current review. Coastal Engineering, 2006, 53, 191-208.	1.7	259
4	Rip Currents. Annual Review of Fluid Mechanics, 2011, 43, 551-581.	10.8	164
5	Mean Lagrangian flow behavior on an open coast rip-channeled beach: A new perspective. Marine Geology, 2010, 268, 1-15.	0.9	147
6	RIPEX: Observations of a rip current system. Marine Geology, 2005, 218, 113-134.	0.9	137
7	A laboratory study of longshore currents over barred and non-barred beaches. Coastal Engineering, 1997, 30, 1-21.	1.7	112
8	Vertical flow structure during Sandy Duck: observations and modeling. Coastal Engineering, 2004, 51, 237-260.	1.7	107
9	Analysis of dune erosion processes in large-scale flume experiments. Coastal Engineering, 2008, 55, 1028-1040.	1.7	107
10	On the accuracy of automated shoreline detection derived from satellite imagery: A case study of the sand motor mega-scale nourishment. Coastal Engineering, 2018, 133, 113-125.	1.7	105
11	On bar growth and decay during interannual net offshore migration. Coastal Engineering, 2012, 60, 190-200.	1.7	104
12	Numerical modeling of infragravity wave response during DELILAH. Journal of Geophysical Research, 2003, 108, .	3.3	79
13	Surf zone physical and morphological regime as determinants of temporal and spatial variation in larval recruitment. Journal of Experimental Marine Biology and Ecology, 2010, 392, 140-150.	0.7	71
14	Modeling the effect of wave-vegetation interaction on wave setup. Journal of Geophysical Research: Oceans, 2016, 121, 4341-4359.	1.0	67
15	Infragravity rip current pulsations. Journal of Geophysical Research, 2004, 109, .	3.3	65
16	Spatial and temporal variation in indicator microbe sampling is influential in beach management decisions. Water Research, 2012, 46, 2237-2246.	5.3	65
17	Surf zone eddies coupled with rip current morphology. Journal of Geophysical Research, 2004, 109, .	3.3	63
18	The ECORS-Truc Vert <sup>TM</sup> 08 nearshore field experiment: presentation of a three-dimensional morphologic system in a macro-tidal environment during consecutive extreme storm conditions. Ocean Dynamics, 2011, 61, 2073-2098.	0.9	53

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19	Evaluation of swimmer-based rip current escape strategies. <i>Natural Hazards</i> , 2014, 71, 1821-1846.	1.6	51
20	Application of prototype flume tests for beach nourishment assessment. <i>Coastal Engineering</i> , 2002, 47, 137-177.	1.7	49
21	The morphological response of a nearshore double sandbar system to constant wave forcing. <i>Coastal Engineering</i> , 2008, 55, 761-770.	1.7	49
22	Surf zone diffusivity on a rip-channelled beach. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
23	Modeling sediment-related enterococci loading, transport, and inactivation at an embayed nonpoint source beach. <i>Water Resources Research</i> , 2013, 49, 693-712.	1.7	45
24	Numerical simulations of larval transport into a rip-channelled surf zone. <i>Limnology and Oceanography</i> , 2014, 59, 1434-1447.	1.6	44
25	Megacusps on rip channel bathymetry: Observations and modeling. <i>Coastal Engineering</i> , 2011, 58, 890-907.	1.7	43
26	Pore water transport of enterococci out of beach sediments. <i>Marine Pollution Bulletin</i> , 2011, 62, 2293-2298.	2.3	39
27	Alongshore variation in barnacle populations is determined by surf zone hydrodynamics. <i>Ecological Monographs</i> , 2017, 87, 508-532.	2.4	39
28	Surf zones regulate larval supply and zooplankton subsidies to nearshore communities. <i>Limnology and Oceanography</i> , 2017, 62, 2811-2828.	1.6	39
29	Modelling infragravity motions on a rip-channel beach. <i>Coastal Engineering</i> , 2006, 53, 209-222.	1.7	38
30	Identification and classification of very low frequency waves on a coral reef flat. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7560-7574.	1.0	38
31	Fortnightly tides and subtidal motions in a choked inlet. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 150, 325-331.	0.9	37
32	Field Observations of Surf Zone "Inner Shelf Exchange on a Rip-Channelled Beach. <i>Journal of Physical Oceanography</i> , 2015, 45, 2339-2355.	0.7	37
33	Planktonic Subsidies to Surf-Zone and Intertidal Communities. <i>Annual Review of Marine Science</i> , 2018, 10, 345-369.	5.1	37
34	Onshore transport of plankton by internal tides and upwelling-relaxation events. <i>Marine Ecology - Progress Series</i> , 2014, 502, 39-51.	0.9	35
35	Vortical surf zone velocity fluctuations with 0(10) min period. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
36	Surfzone hydrodynamics as a key determinant of spatial variation in rocky intertidal communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161017.	1.2	31

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37	Effects of full-scale beach renovation on fecal indicator levels in shoreline sand and water. <i>Water Research</i> , 2014, 48, 579-591.	5.3	28
38	Microbial release from seeded beach sediments during wave conditions. <i>Marine Pollution Bulletin</i> , 2014, 79, 114-122.	2.3	26
39	Wave energy level and geographic setting correlate with Florida beach water quality. <i>Marine Pollution Bulletin</i> , 2016, 104, 54-60.	2.3	26
40	Transport of larvae and detritus across the surf zone of a steep reflective pocket beach. <i>Marine Ecology - Progress Series</i> , 2015, 528, 71-86.	0.9	26
41	Surfzone Monitoring Using Rotary Wing Unmanned Aerial Vehicles. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 855-863.	0.5	25
42	Efficient non-hydrostatic modelling of 3D wave-induced currents using a subgrid approach. <i>Ocean Modelling</i> , 2017, 116, 118-133.	1.0	25
43	Wave Generation of Gravity-Driven Sediment Flows on a Predominantly Sandy Seabed. <i>Geophysical Research Letters</i> , 2018, 45, 7634-7645.	1.5	24
44	A Conceptual Model for Spatial Grain Size Variability on the Surface of and within Beaches. <i>Journal of Marine Science and Engineering</i> , 2016, 4, 38.	1.2	23
45	The effect of tidal exchange on residence time in a coastal embayment. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 172, 108-120.	0.9	23
46	On the perception of morphodynamic model skill. <i>Coastal Engineering</i> , 2014, 94, 112-125.	1.7	22
47	The use of autonomous vehicles for spatially measuring mean velocity profiles in rivers and estuaries. <i>Intelligent Service Robotics</i> , 2011, 4, 233-244.	1.6	21
48	Bathymetric control of surf zone retention on a rip-channelled beach. <i>Ocean Dynamics</i> , 2014, 64, 1221-1231.	0.9	21
49	The Impact of Wind on Flow and Sediment Transport over Intertidal Flats. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 910.	1.2	20
50	Efficient two-layer non-hydrostatic wave model with accurate dispersive behaviour. <i>Coastal Engineering</i> , 2021, 164, 103808.	1.7	20
51	Simulating wave runup on an intermediate-reflective beach using a wave-resolving and a wave-averaged version of XBeach. <i>Coastal Engineering</i> , 2021, 163, 103788.	1.7	20
52	Tidal and nontidal exchange at a subtropical inlet: Destin Inlet, Northwest Florida. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 155, 137-147.	0.9	19
53	A predictive model for microbial counts on beaches where intertidal sand is the primary source. <i>Marine Pollution Bulletin</i> , 2015, 94, 37-47.	2.3	19
54	A comparative study of models to predict storm impact on beaches. <i>Natural Hazards</i> , 2017, 87, 843-865.	1.6	17

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55	Tidal flow separation at protruding beach nourishments. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 63-79.	1.0	17
56	Measurements of hydrodynamics, sediment, morphology and benthos on Ameland ebb-tidal delta and lower shoreface. <i>Earth System Science Data</i> , 2020, 12, 2775-2786.	3.7	17
57	Shear instabilities of wave-driven alongshore currents. <i>Reviews of Geophysics</i> , 2000, 38, 437-463.	9.0	15
58	Estimation of infragravity waves at intermediate water depth. <i>Coastal Engineering</i> , 2010, 57, 52-61.	1.7	15
59	Observations of inner shelf cross-shore surface material transport adjacent to a coastal inlet in the northern Gulf of Mexico. <i>Continental Shelf Research</i> , 2017, 137, 142-153.	0.9	15
60	Role of morphological variability in the evolution of nearshore sandbars. <i>Coastal Engineering</i> , 2012, 69, 19-28.	1.7	14
61	PIV measurements of the bottom boundary layer under nonlinear surface waves. <i>Coastal Engineering</i> , 2014, 94, 33-46.	1.7	14
62	Variation in the abundance of <i>Pseudo-nitzschia</i> and domoic acid with surf zone type. <i>Harmful Algae</i> , 2016, 55, 172-178.	2.2	14
63	Significance of beach geomorphology on fecal indicator bacteria levels. <i>Marine Pollution Bulletin</i> , 2017, 121, 160-167.	2.3	14
64	Sensitivity of rip current forecasts to errors in remotely-sensed bathymetry. <i>Coastal Engineering</i> , 2018, 135, 66-76.	1.7	14
65	Analysing decadal-scale crescentic bar dynamics using satellite imagery: A case study at Anmok beach, South Korea. <i>Marine Geology</i> , 2018, 405, 1-11.	0.9	14
66	Modelling Cross-Shore Shoreline Change on Multiple Timescales and Their Interactions. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 582.	1.2	13
67	Waves and operational oceanography: Toward a coherent description of the upper ocean. <i>Eos</i> , 2005, 86, 37.	0.1	12
68	Frequency-wavenumber velocity spectra, Taylor's hypothesis, and length scales in a natural gravel bed river. <i>Water Resources Research</i> , 2012, 48, .	1.7	11
69	Behaviour of subtidal sandbars in response to nourishments. <i>Geomorphology</i> , 2018, 313, 1-12.	1.1	11
70	Performance Evaluation of Wave Input Reduction Techniques for Modeling Inter-Annual Sandbar Dynamics. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 148.	1.2	11
71	Characterizing Wave Shape Evolution on an Ebb-Tidal Shoal. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 367.	1.2	11
72	Persistent Differences in Horizontal Gradients in Phytoplankton Concentration Maintained by Surf Zone Hydrodynamics. <i>Estuaries and Coasts</i> , 2018, 41, 158-176.	1.0	10

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73	Coastal protection by a small scale river plume against oil spills in the Northern Gulf of Mexico. Continental Shelf Research, 2018, 163, 1-11.	0.9	10
74	SWAN SurfBeat-1D. Coastal Engineering, 2022, 172, 104068.	1.7	10
75	Modelling statistical wave interferences over shear currents. Journal of Fluid Mechanics, 2020, 891, .	1.4	9
76	Assessing the effectiveness of rip current swimmer escape strategies, Shelly Beach, NSW, Australia. Journal of Coastal Research, 2013, 65, 784-789.	0.1	8
77	The Relationship between Sea-Swell Bound Wave Height and Wave Shape. Journal of Marine Science and Engineering, 2020, 8, 643.	1.2	7
78	Optimal sediment transport for morphodynamic model validation. Coastal Engineering, 2020, 158, 103662.	1.7	7
79	Free Infragravity Waves in the North Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017368.	1.0	7
80	Divergence-Free Spatial Velocity Flow Field Interpolator for Improving Measurements from ADCP-Equipped Small Unmanned Underwater Vehicles. Journal of Atmospheric and Oceanic Technology, 2012, 29, 478-484.	0.5	6
81	Mechanisms of Cross-Shore Transport and Spatial Variability of Phytoplankton on a Rip-Channeled Beach. Frontiers in Marine Science, 2018, 5, .	1.2	6
82	Global Mapping of Seaport Operability Risk Indicators Using Open-Source Metocean Data. Journal of Marine Science and Engineering, 2021, 9, 695.	1.2	6
83	Observations of Cross-Shore Chenier Dynamics in Demak, Indonesia. Journal of Marine Science and Engineering, 2020, 8, 972.	1.2	5
84	Cross-Shore Intertidal Bar Behavior along the Dutch Coast: Laser Measurements and Conceptual Model. Journal of Marine Science and Engineering, 2020, 8, 864.	1.2	4
85	High-resolution, large-scale laboratory measurements of a sandy beach and dynamic cobble berm revetment. Scientific Data, 2021, 8, 22.	2.4	4
86	North Sea Infragravity Wave Observations. Journal of Marine Science and Engineering, 2021, 9, 141.	1.2	4
87	Morphodynamic Response to Wave Group Forcing. , 2001, , 3218.		3
88	SHOALING AND SHORELINE DISSIPATION OF SUBHARMONIC GRAVITY WAVES. , 2005, , .		3
89	Observations of mixing and transport on a steep beach. Continental Shelf Research, 2019, 178, 1-14.	0.9	3
90	WAVE-SKEWNESS AND CURRENT-RELATED EBB-TIDAL SEDIMENT TRANSPORT: OBSERVATIONS AND MODELING. , 2019, , .		3

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91	Drivers of cross-shore chenier dynamics off a drowning coastal plain. <i>Marine Geology</i> , 2022, 445, 106753.	0.9	3
92	Nearshore Wave and Current Predictions Compared with Field Observations. , 2001, , 788.		2
93	Feasibility of Measuring Currents in the Nearshore from a Personal Water Craft. , 2002, , 66.		2
94	AEOLIAN MODELLING OF COASTAL LANDFORM DEVELOPMENT. , 2019, , .		2
95	Potential Impacts of PCBs on Sediment Microbiomes in a Tropical Marine Environment. <i>Journal of Marine Science and Engineering</i> , 2016, 4, 13.	1.2	1
96	Cross-shore stratified tidal flow seaward of a mega-nourishment. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 200, 59-70.	0.9	1
97	Relationship between Three-Dimensional Radiation Stress and Vortex-Force Representations. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 791.	1.2	1
98	MULTI-TIMESCALE SHORELINE MODELLING. , 2019, , .		1
99	MORPHODYNAMIC MODELLING OF UP-STATE AND DOWN-STATE TRANSITIONS AT PALM BEACH, NSW, AUSTRALIA. , 2009, , .		1
100	Coarse Particles' Threshold of Motion under Shoaling Waves. , 2006, , 1.		0
101	MEGACUSP FORMATION ON RIP CHANNEL BATHYMETRY. , 2011, , .		0
102	The Deceptive Simplicity of the Brier Skill Score. , 2018, , 1639-1663.		0
103	INTEGRAL ARTIFICIAL SURF REEF DESIGN. , 2007, , .		0
104	INSTANTANEOUS BED SHEAR STRESSES IN SHOALING WAVES. , 2007, , .		0
105	REDUCING UNCERTAINTY IN PREDICTION OF DUNE EROSION DURING EXTREME CONDITIONS. , 2009, , .		0
106	SURFING WAVES GENERATED BY A HULL. , 2009, , .		0