

Dano Ja Roelvink

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

7,765
citations

81839

39
h-index

51562

86
g-index

128
all docs

128
docs citations

128
times ranked

3886
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and validation of a three-dimensional morphological model. Coastal Engineering, 2004, 51, 883-915.	1.7	1,438
2	Modelling storm impacts on beaches, dunes and barrier islands. Coastal Engineering, 2009, 56, 1133-1152.	1.7	1,033
3	Coastal morphodynamic evolution techniques. Coastal Engineering, 2006, 53, 277-287.	1.7	399
4	Barâ€generating crossâ€shore flow mechanisms on a beach. Journal of Geophysical Research, 1989, 94, 4785-4800.	3.3	334
5	Two-dimensional time dependent hurricane overwash and erosion modeling at Santa Rosa Island. Coastal Engineering, 2010, 57, 668-683.	1.7	294
6	Morphodynamic modeling of an embayed beach under wave group forcing. Journal of Geophysical Research, 2004, 109, .	3.3	234
7	Infragravity waves: From driving mechanisms to impacts. Earth-Science Reviews, 2018, 177, 774-799.	4.0	165
8	Riverâ€tide dynamics: Exploration of nonstationary and nonlinear tidal behavior in the <sc>Y</sc>angtze <sc>R</sc>iver estuary. Journal of Geophysical Research: Oceans, 2015, 120, 3499-3521.	1.0	154
9	Modeling crossâ€shore sandbar behavior on the timescale of weeks. Journal of Geophysical Research, 2007, 112, .	3.3	150
10	Longâ€term morphodynamic evolution of a tidal embayment using a twoâ€dimensional, processâ€based model. Journal of Geophysical Research, 2008, 113, .	3.3	145
11	Numerical modeling of low-frequency wave dynamics over a fringing coral reef. Coastal Engineering, 2013, 73, 178-190.	1.7	143
12	Long-term process-based morphological modeling of the Marsdiep Tidal Basin. Marine Geology, 2008, 256, 90-100.	0.9	129
13	Climate-change impact assessment for inlet-interrupted coastlines. Nature Climate Change, 2013, 3, 83-87.	8.1	126
14	Beach Wizard: Nearshore bathymetry estimation through assimilation of model computations and remote observations. Coastal Engineering, 2008, 55, 1016-1027.	1.7	114
15	Morphodynamic upscaling with the MORFAC approach: Dependencies and sensitivities. Coastal Engineering, 2011, 58, 806-811.	1.7	114
16	Improving predictions of swash dynamics in XBeach: The role of groupiness and incident-band runup. Coastal Engineering, 2018, 134, 103-123.	1.7	114
17	Vertical flow structure during Sandy Duck: observations and modeling. Coastal Engineering, 2004, 51, 237-260.	1.7	107
18	On bar growth and decay during interannual net offshore migration. Coastal Engineering, 2012, 60, 190-200.	1.7	104

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19	The morphological response of large tidal inlet/basin systems to relative sea level rise. <i>Climatic Change</i> , 2012, 113, 253-276.	1.7	91
20	Modelled channel patterns in a schematized tidal inlet. <i>Coastal Engineering</i> , 2009, 56, 1069-1083.	1.7	87
21	The role of river flow and tidal asymmetry on 1D estuarine morphodynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2315-2334.	1.0	87
22	Do salt marshes survive sea level rise? Modelling wave action, morphodynamics and vegetation dynamics. <i>Environmental Modelling and Software</i> , 2018, 109, 152-166.	1.9	81
23	Coastal lagoons and rising sea level: A review. <i>Earth-Science Reviews</i> , 2016, 154, 356-368.	4.0	74
24	Probabilistic estimation of storm erosion using analytical, semi-empirical, and process based storm erosion models. <i>Coastal Engineering</i> , 2013, 82, 64-75.	1.7	72
25	Evolution of the Bengal Delta and Its Prevailing Processes. <i>Journal of Coastal Research</i> , 2016, 321, 1212-1226.	0.1	72
26	Long-term morphodynamic evolution and energy dissipation in a coastal plain, tidal embayment. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71
27	Modeling the effect of wave-vegetation interaction on wave setup. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4341-4359.	1.0	67
28	Field and model data analysis of sand transport patterns in Texel Tidal inlet (the Netherlands). <i>Coastal Engineering</i> , 2006, 53, 505-529.	1.7	66
29	Nearshore subtidal bathymetry from time-exposure video images. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	63
30	Process-based, morphodynamic hindcast of decadal deposition patterns in San Pablo Bay, California, 1856-1887. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
31	Morphodynamic modeling of tidal channel evolution in comparison to empirical PA relationship. <i>Coastal Engineering</i> , 2010, 57, 827-837.	1.7	58
32	Modeling centuries of estuarine morphodynamics in the Western Scheldt estuary. <i>Geophysical Research Letters</i> , 2016, 43, 3839-3847.	1.5	55
33	Nonhydrostatic and surfbeat model predictions of extreme wave run-up in fringing reef environments. <i>Coastal Engineering</i> , 2018, 137, 11-27.	1.7	55
34	Bed composition generation for morphodynamic modeling: case study of San Pablo Bay in California, USA. <i>Ocean Dynamics</i> , 2011, 61, 173-186.	0.9	53
35	Coupling nearshore and aeolian processes: XBeach and duna process-based models. <i>Environmental Modelling and Software</i> , 2019, 115, 98-112.	1.9	53
36	The morphological response of a nearshore double sandbar system to constant wave forcing. <i>Coastal Engineering</i> , 2008, 55, 761-770.	1.7	49

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37	Assessing climate change impacts on the stability of small tidal inlet systems: Why and how?. Earth-Science Reviews, 2016, 154, 369-380.	4.0	49
38	Efficient Modeling of Complex Sandy Coastal Evolution at Monthly to Century Time Scales. Frontiers in Marine Science, 2020, 7, .	1.2	42
39	Modelling suspended sediment dynamics on the subaqueous delta of the Mekong River. Continental Shelf Research, 2017, 147, 213-230.	0.9	41
40	Sediment transport and morphodynamical modeling on the estuaries and coastal zone of the Vietnamese Mekong Delta. Continental Shelf Research, 2019, 186, 64-76.	0.9	40
41	Observation and modeling of the storm-induced fluid mud dynamics in a muddy-estuarine navigational channel. Geomorphology, 2014, 217, 23-36.	1.1	39
42	Exploring the impacts of multiple tidal constituents and varying river flow on long-term, large-scale estuarine morphodynamics by means of a 1D model. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1000-1022.	1.0	38
43	Sediment transport in the presence of large reef bottom roughness. Journal of Geophysical Research: Oceans, 2017, 122, 1347-1368.	1.0	38
44	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
45	Spectral wave-driven sediment transport across a fringing reef. Coastal Engineering, 2015, 98, 78-94.	1.7	37
46	Mudflat Morphodynamics and the Impact of Sea Level Rise in South San Francisco Bay. Estuaries and Coasts, 2017, 40, 37-49.	1.0	36
47	MODELING STORM IMPACTS ON BEACHES, DUNES AND BARRIER ISLANDS. , 2009, , .		34
48	Exploration of the impact of seasonal river discharge variations on long-term estuarine morphodynamic behavior. Coastal Engineering, 2015, 95, 105-116.	1.7	30
49	Assessing Beach and Dune Erosion and Vulnerability Under Sea Level Rise: A Case Study in the Mediterranean Sea. Frontiers in Marine Science, 2019, 6, .	1.2	29
50	Morphodynamic modelling of the wilderness breach, Fire Island, New York. Part I: Model set-up and validation. Coastal Engineering, 2020, 157, 103621.	1.7	29
51	Multidirectional wave transformation around detached breakwaters. Coastal Engineering, 2007, 54, 775-789.	1.7	28
52	How did the AD 1755 tsunami impact on sand barriers across the southern coast of Portugal?. Geomorphology, 2016, 268, 296-311.	1.1	28
53	Experimental study on fall velocity of fine sediment in the Yangtze Estuary, China. Ocean Engineering, 2015, 103, 180-187.	1.9	27
54	Assessing climate change impacts on the stability of small tidal inlets: Part 2 - Data rich environments. Marine Geology, 2018, 395, 65-81.	0.9	26

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55	Assessing climate change impacts on the stability of small tidal inlets: Part 1 - Data poor environments. <i>Marine Geology</i> , 2017, 390, 331-346.	0.9	25
56	Intertidal Area Disappears Under Sea Level Rise: 250 Years of Morphodynamic Modeling in San Pablo Bay, California. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 38-59.	1.0	25
57	Validation of an advective-deterministic approach to short wave breaking in a surf-beat model. <i>Coastal Engineering</i> , 2012, 60, 69-83.	1.7	24
58	Tide circulation patterns in a coastal lagoon under sea-level rise. <i>Ocean Dynamics</i> , 2018, 68, 1121-1139.	0.9	24
59	A 2-D process-based model for suspended sediment dynamics: a first step towards ecological modeling. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2837-2857.	1.9	22
60	A validation of an operational wave and surge prediction system for the Dutch coast. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1231-1242.	1.5	20
61	Modelling of sedimentation processes inside Roseires Reservoir (Sudan). <i>Earth Surface Dynamics</i> , 2015, 3, 223-238.	1.0	20
62	A Boussinesq-type wave driver for a morphodynamical model to predict short-term morphology. <i>Coastal Engineering</i> , 2011, 58, 66-84.	1.7	19
63	Contribution of Infragravity Waves to Run-up and Overwash in the Pertuis Breton Embayment (France). <i>Journal of Marine Science and Engineering</i> , 2019, 7, 205.	1.2	19
64	Numerical modelling of the erosion of marsh boundaries due to wave impact. <i>Coastal Engineering</i> , 2019, 152, 103514.	1.7	19
65	On incipient motion of silt-sand under combined action of waves and currents. <i>Applied Ocean Research</i> , 2017, 69, 116-125.	1.8	18
66	Flooding in the Mekong Delta: the impact of dyke systems on downstream hydrodynamics. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 189-212.	1.9	17
67	Modelling morphodynamic response of a tidal basin to an anthropogenic effect: Ley Bay, East Frisian Wadden Sea – applying tidal forcing only and different sediment fractions. <i>Coastal Engineering</i> , 2012, 67, 14-28.	1.7	16
68	How can climate change and engineered water conveyance affect sediment dynamics in the San Francisco Bay-Delta system?. <i>Climatic Change</i> , 2017, 142, 375-389.	1.7	16
69	Bank Erosion Processes in Regulated Navigable Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005441.	1.0	16
70	Hydrodynamic Validation of Delft3D with Field Measurements at Egmond. , 2001, , 2714.		15
71	New analytical equation for dispersion in estuaries with a distinct ebb-flood channel system. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 7-16.	0.9	14
72	Eleven Years of Mangrove – Mudflat Dynamics on the Mud Volcano-Induced Prograding Delta in East Java, Indonesia: Integrating UAV and Satellite Imagery. <i>Remote Sensing</i> , 2021, 13, 1084.	1.8	14

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73	Sand bypassing and shoreline evolution near coastal structure, comparing analytical solution and XBeach numerical modelling. Journal of Coastal Research, 2013, 165, 2083-2088.	0.1	13
74	QUANTIFYING NEARSHORE MORPHOLOGICAL RECOVERY TIME SCALES USING ARGUS VIDEO IMAGING: PALM BEACH, SYDNEY AND DUCK, NORTH CAROLINA. Coastal Engineering Proceedings, 2012, 1, 24.	0.1	13
75	Simulating Destructive and Constructive Morphodynamic Processes in Steep Beaches. Journal of Marine Science and Engineering, 2021, 9, 86.	1.2	12
76	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
77	Predicting ship waves in sheltered waterways – An application of XBeach to the Stockholm Archipelago, Sweden. Coastal Engineering, 2021, 170, 104026.	1.7	10
78	SHORT WAVE BREAKING EFFECTS ON LOW FREQUENCY WAVES. Coastal Engineering Proceedings, 2011, 1, 20.	0.1	9
79	Transition Zone Width and Implications for Modelling Surfzone Hydrodynamics. , 1991, , 68.		8
80	WAVE CELERITY FROM VIDEO IMAGING: A NEW METHOD. , 2009, , .		8
81	Suspended sediment dynamics in a tidal channel network under peak river flow. Ocean Dynamics, 2016, 66, 703-718.	0.9	8
82	Morphodynamic Resilience of Intertidal Mudflats on a Seasonal Time Scale. Journal of Geophysical Research: Oceans, 2019, 124, 8290-8308.	1.0	8
83	Morphologic modelling of tidal inlet on a barrier-lagoon coast: Case study of the Laolonggou tidal inlet in the Bohai Bay. Applied Ocean Research, 2020, 94, 101967.	1.8	8
84	Morphodynamic Evolution of a Fringing Sandy Shoal: From Tidal Levees to Sea Level Rise. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005397.	1.0	8
85	Process-based modeling deriving a long-term sediment budget for the Ganges-Brahmaputra-Meghna Delta, Bangladesh. Estuarine, Coastal and Shelf Science, 2021, 260, 107509.	0.9	8
86	Modeling the Morphodynamic Response of Estuarine Intertidal Shoals to Sea Level Rise. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	8
87	Modeling the Process Response of Coastal and Deltaic Systems to Human and Global Changes: Focus on the Mekong System. Oceanography, 2017, 30, 84-97.	0.5	7
88	Spatial Topographic Interpolation for Meandering Channels. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, .	0.5	7
89	Wave attenuation potential, sediment properties and mangrove growth dynamics data over Guyana's intertidal mudflats: assessing the potential of mangrove restoration works. Earth System Science Data, 2022, 14, 2445-2462.	3.7	7
90	Consideration on the Sedimentation Process in a Settling Basin. Journal of Hydrology and Hydromechanics, 2009, 57, .	0.7	6

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91	Modelling and analysis on high sediment concentration layer of fine sediments under wave-dominated conditions. Coastal Engineering, 2018, 140, 205-231.	1.7	6
92	Headland structural impacts on surf zone current circulations. Journal of Coastal Research, 2014, 70, 65-71.	0.1	4
93	MORPHODYNAMIC UPSCALING WITH THE MORFAC APPROACH IN TIDAL CONDITIONS: THE CRITICAL MORFAC. Coastal Engineering Proceedings, 2015, 1, 27.	0.1	4
94	Prediction of ship-ship interactions in ports by a non-hydrostatic model. Journal of Hydrodynamics, 2015, 27, 824-834.	1.3	4
95	The mean suspended sediment concentration profile of silty sediments under wave-dominant conditions. Continental Shelf Research, 2019, 186, 111-126.	0.9	4
96	A semi-empirical method for computing storm surges on open coasts during tropical cyclones. Coastal Engineering, 2021, 165, 103839.	1.7	4
97	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
98	Morphodynamic Response to Wave Group Forcing. , 2001, , 3218.		3
99	Development and Validation of Quasi-Eulerian Mean Three-Dimensional Equations of Motion Using the Generalized Lagrangian Mean Method. Journal of Marine Science and Engineering, 2021, 9, 76.	1.2	3
100	CONTROLLING SWASH ZONE SLOPE IS KEY TO BEACH PROFILE MODELLING. , 2019, ,		3
101	Sand Transport on the Shoreface of the Holland Coast. , 1991, , 1909.		2
102	Verification of a One-Dimensional Surfbeat Model Against Laboratory Data. , 1993, , 960.		2
103	Climate Change Impacts on the Stability of Small Tidal Inlets: A Numerical Modelling Study Using the Realistic Analogue Approach. The International Journal of Ocean and Climate Systems, 2012, 3, 163-171.	0.8	2
104	Stability of Wide-Graded Rubble Mounds. Journal of Waterway, Port, Coastal and Ocean Engineering, 2013, 139, 157-170.	0.5	2
105	THE EFFECTS OF GEOMORPHIC CHANGES DURING HURRICANE SANDY ON WATER LEVELS IN GREAT SOUTH BAY. , 2015, ,		2
106	Operational prediction of rip currents using numerical model and nearshore bathymetry from video images. AIP Conference Proceedings, 2017, ,	0.3	1
107	Relationship between Three-Dimensional Radiation Stress and Vortex-Force Representations. Journal of Marine Science and Engineering, 2021, 9, 791.	1.2	1
108	Reconstruction of Directional Spectra of Infragravity Waves. Journal of Geophysical Research: Oceans, 0, ,	1.0	1

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109	Sediment Transport on Nearly-Prismatic Beaches. , 1989, , 1736.		0
110	Vertical Profile of Radiation Stresses for 3D Nearshore Currents Model. , 2006, , 1.		0
111	2DH-Quantification of Surf Zone Bathymetry from Video. , 2006, , 1.		0
112	Large-Scale Scour of the Sea Floor and the Effect of Natural Armouring Processes, Land Reclamation Maasvlakte 2, Port of Rotterdam. , 2007, , 598.		0
113	LONG-TERM PROCESS-BASED MORPHOLOGICAL MODELING OF TIDAL BASINS AND ESTUARIES IN THE NETHERLANDS. , 2009, , .		0
114	MONITORING FLUID MUD IN THE NORTH PASSAGE NAVIGATION CHANNEL OF YANGTZE ESTUARY, CHINA. , 2011, , 741-748.		0
115	ICON.NL: COASTLINE OBSERVATORY TO EXAMINE COASTAL DYNAMICS IN RESPONSE TO NATURAL FORCING AND HUMAN INTERVENTIONS. , 2019, , .		0