Pieter C Roos

List of Publications by Year
in descending order

40 papers	563 citations	687363 13 h-index	677142 22 g-index
40 all docs	40 docs citations	40 times ranked	510 citing authors

#	Article	IF	Citations
1	Gravitational Circulation as Driver of Upstream Migration of Estuarine Sand Dunes. Geophysical Research Letters, 2021, 48, e2021GL093337.	4.0	2
2	Unsteady Linearisation of Bed Shear Stress for Idealised Storm Surge Modelling. Journal of Marine Science and Engineering, 2021, 9, 1160.	2.6	0
3	Horizontal and Vertical Sediment Sorting in Tidal Sand Waves: Modeling the Finiteâ€Amplitude Stage. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005430.	2.8	5
4	Biogeomorphology in the marine landscape: Modelling the feedbacks between patches of the polychaete worm Lanice conchilega and tidal sand waves. Earth Surface Processes and Landforms, 2020, 45, 2572-2587.	2.5	13
5	The Impact of Storm-Induced Breaches on Barrier Coast Systems Subject to Climate Changeâ€"A Stochastic Modelling Study. Journal of Marine Science and Engineering, 2020, 8, 271.	2.6	3
6	Influence of Backâ€Barrier Basin Geometry on Multiple Tidal Inlet Systems: The Roles of Resonance and Bottom Friction. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005261.	2.8	5
7	Design and Performance of Permeable Groins on a Low-Energy Natural Beach. Journal of Marine Science and Engineering, 2020, 8, 283.	2.6	3
8	Modelling the two-way coupling of tidal sand waves and benthic organisms: a linear stability approach. Environmental Fluid Mechanics, 2019, 19, 1073-1103.	1.6	12
9	Video Transects Reveal That Tidal Sand Waves Affect the Spatial Distribution of Benthic Organisms and Sand Ripples. Geophysical Research Letters, 2018, 45, 11,837.	4.0	31
10	Process-based modelling of bank-breaking mechanisms of tidal sandbanks. Continental Shelf Research, 2018, 167, 139-152.	1.8	6
11	Time-varying storm surges on Lorentzâ€™s Wadden Sea networks. Ocean Dynamics, 2018, 68, 1051-1065.	2.2	5
12	The Influence of Storms on Sand Wave Evolution: A Nonlinear Idealized Modeling Approach. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2070-2086.	2.8	27
13	Three-dimensional semi-idealized model for estuarine turbidity maxima in tidally dominated estuaries. Ocean Modelling, 2017, 113, 1-21.	2.4	12
14	Influence of retention basins on tidal dynamics in estuaries: Application to the Ems estuary. Ocean and Coastal Management, 2016, 134, 216-225.	4.4	8
15	Three-dimensional semi-idealized model for tidal motion in tidal estuaries. Ocean Dynamics, 2016, 66, 99-118.	2.2	10
16	Response of large-scale coastal basins to wind forcing: influence of topography. Ocean Dynamics, 2016, 66, 549-565.	2.2	3
17	Resonance properties of a closed rotating rectangular basin subject to space- and time-dependent wind forcing. Ocean Dynamics, 2015, 65, 325-339.	2.2	6
18	Resonance properties of tidal channels with multiple retention basins: role of adjacent sea. Ocean Dynamics, 2015, 65, 311-324.	2.2	15

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19	The role of suspended load transport in the occurrence of tidal sand waves. Journal of Geophysical Research F: Earth Surface, 2014, 119, 701-716.	2.8	30
20	Observations of barrier island length explained using an exploratory morphodynamic model. Geophysical Research Letters, 2013, 40, 4338-4343.	4.0	18
21	Modelling the influence of spatially varying hydrodynamics on the cross-sectional stability of double inlet systems. Ocean Dynamics, 2013, 63, 1263-1278.	2.2	8
22	Improving a bathymetric resurvey policy with observed sea floor dynamics. Journal of Applied Geodesy, 2013, 7, .	1.1	2
23	Wave reworking of abandoned deltas. Geophysical Research Letters, 2013, 40, 5899-5903.	4.0	50
24	Influence of topography on tide propagation and amplification in semi-enclosed basins. Ocean Dynamics, 2011, 61, 21-38.	2.2	44
25	An idealized model of tidal dynamics in the North Sea: resonance properties and response to large-scale changes. Ocean Dynamics, 2011, 61, 2019-2035.	2.2	28
26	Impact of mega-scale sand extraction on tidal dynamics in semi-enclosed basins. Coastal Engineering, 2011, 58, 678-689.	4.0	10
27	The estimation of sea floor dynamics from bathymetric surveys of a sand wave area. Journal of Applied Geodesy, 2009, 3, .	1.1	7
28	Closure to â€œInteracting Divided Channel Method for Compound Channel Flowâ€•by Fredrik Huthoff, Pieter C. Roos, Denie C. M. Augustijn, and Suzanne J. M. H. Hulscher. Journal of Hydraulic Engineering, 2009, 135, 1020-1022.	1.5	1
29	Horizontally viscous effects in a tidal basin: extending Taylor's problem. Journal of Fluid Mechanics, 2009, 640, 421-439.	3.4	5
30	Modelling the morphodynamic impact of offshore sandpit geometries. Coastal Engineering, 2008, 55, 704-715.	4.0	22
31	Interacting Divided Channel Method for Compound Channel Flow. Journal of Hydraulic Engineering, 2008, 134, 1158-1165.	1.5	75
32	Modeling the effect of nonuniform sediment on the dynamics of offshore tidal sandbanks. Journal of Geophysical Research, 2007, 112, .	3.3	18
33	NONLINEAR MODELING OF TIDAL SANDBANKS: WAVELENGTH EVOLUTION AND SAND EXTRACTION. , 2007, , .		2
34	Grain size sorting over offshore sandwaves. , 2007, , 649-656.		7
35	Morphodynamics of Trenches and Pits under the Influence of Currents and Waves â€” Simple Engineering Formulas. , 2006, , 1.		6
36	Linear evolution of sandwave packets. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	10

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37	The cross-sectional shape of tidal sandbanks: Modeling and observations. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	30
38	Large-scale seabed dynamics in offshore morphology: Modeling human intervention. Reviews of Geophysics, 2003, 41, .	23.0	18
39	FINITE AMPLITUDE TIDAL SANDBANKS: ONE-DIMENSIONAL EQUILIBRIUM PROFILES. , 2003, , .		0
40	Formation of offshore tidal sand banks triggered by a gasmined bed subsidence. Continental Shelf Research, 2002, 22, 2807-2818.	1.8	6