

Pieter C Roos

List of Publications by Year in descending order

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Version: 2024-02-01

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	Interacting Divided Channel Method for Compound Channel Flow. Journal of Hydraulic Engineering, 2008, 134, 1158-1165.	1.5	75
2	Wave reworking of abandoned deltas. Geophysical Research Letters, 2013, 40, 5899-5903.	4.0	50
3	Influence of topography on tide propagation and amplification in semi-enclosed basins. Ocean Dynamics, 2011, 61, 21-38.	2.2	44
4	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
5	The cross-sectional shape of tidal sandbanks: Modeling and observations. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	30
6	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
7	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
8	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
9	Modelling the morphodynamic impact of offshore sandpit geometries. Coastal Engineering, 2008, 55, 704-715.	4.0	22
10	Large-scale seabed dynamics in offshore morphology: Modeling human intervention. Reviews of Geophysics, 2003, 41, .	23.0	18
11	Modeling the effect of nonuniform sediment on the dynamics of offshore tidal sandbanks. Journal of Geophysical Research, 2007, 112, .	3.3	18
12	Observations of barrier island length explained using an exploratory morphodynamic model. Geophysical Research Letters, 2013, 40, 4338-4343.	4.0	18
13	Resonance properties of tidal channels with multiple retention basins: role of adjacent sea. Ocean Dynamics, 2015, 65, 311-324.	2.2	15
14	Biogeomorphology in the marine landscape: Modelling the feedbacks between patches of the polychaete worm <i>Lanice conchilega</i> and tidal sand waves. Earth Surface Processes and Landforms, 2020, 45, 2572-2587.	2.5	13
15	Three-dimensional semi-idealized model for estuarine turbidity maxima in tidally dominated estuaries. Ocean Modelling, 2017, 113, 1-21.	2.4	12
16	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
17	Linear evolution of sandwave packets. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	10
18	Impact of mega-scale sand extraction on tidal dynamics in semi-enclosed basins. Coastal Engineering, 2011, 58, 678-689.	4.0	10

#	ARTICLE	IF	CITATIONS
19	Three-dimensional semi-idealized model for tidal motion in tidal estuaries. <i>Ocean Dynamics</i> , 2016, 66, 99-118.	2.2	10
20	Modelling the influence of spatially varying hydrodynamics on the cross-sectional stability of double inlet systems. <i>Ocean Dynamics</i> , 2013, 63, 1263-1278.	2.2	8
21	Influence of retention basins on tidal dynamics in estuaries: Application to the Ems estuary. <i>Ocean and Coastal Management</i> , 2016, 134, 216-225.	4.4	8
22	The estimation of sea floor dynamics from bathymetric surveys of a sand wave area. <i>Journal of Applied Geodesy</i> , 2009, 3, .	1.1	7
23	Grain size sorting over offshore sandwaves. , 2007, , 649-656.		7
24	Formation of offshore tidal sand banks triggered by a gasmined bed subsidence. <i>Continental Shelf Research</i> , 2002, 22, 2807-2818.	1.8	6
25	Morphodynamics of Trenches and Pits under the Influence of Currents and Waves â€” Simple Engineering Formulas. , 2006, , 1.		6
26	Resonance properties of a closed rotating rectangular basin subject to space- and time-dependent wind forcing. <i>Ocean Dynamics</i> , 2015, 65, 325-339.	2.2	6
27	Process-based modelling of bank-breaking mechanisms of tidal sandbanks. <i>Continental Shelf Research</i> , 2018, 167, 139-152.	1.8	6
28	Horizontally viscous effects in a tidal basin: extending Taylor's problem. <i>Journal of Fluid Mechanics</i> , 2009, 640, 421-439.	3.4	5
29	Time-varying storm surges on Lorentzâ€™s Wadden Sea networks. <i>Ocean Dynamics</i> , 2018, 68, 1051-1065.	2.2	5
30	Horizontal and Vertical Sediment Sorting in Tidal Sand Waves: Modeling the Finiteâ€”Amplitude Stage. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005430.	2.8	5
31	Influence of Backâ€”Barrier Basin Geometry on Multiple Tidal Inlet Systems: The Roles of Resonance and Bottom Friction. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005261.	2.8	5
32	Response of large-scale coastal basins to wind forcing: influence of topography. <i>Ocean Dynamics</i> , 2016, 66, 549-565.	2.2	3
33	The Impact of Storm-Induced Breaches on Barrier Coast Systems Subject to Climate Changeâ€”A Stochastic Modelling Study. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 271.	2.6	3
34	Design and Performance of Permeable Groins on a Low-Energy Natural Beach. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 283.	2.6	3
35	Improving a bathymetric resurvey policy with observed sea floor dynamics. <i>Journal of Applied Geodesy</i> , 2013, 7, .	1.1	2
36	Gravitational Circulation as Driver of Upstream Migration of Estuarine Sand Dunes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093337.	4.0	2

#	ARTICLE	IF	CITATIONS
37	NONLINEAR MODELING OF TIDAL SANDBANKS: WAVELENGTH EVOLUTION AND SAND EXTRACTION. , 2007, , .		2
38	Closure to "Interacting Divided Channel Method for Compound Channel Flow" 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
39	Unsteady Linearisation of Bed Shear Stress for Idealised Storm Surge Modelling. Journal of Marine Science and Engineering, 2021, 9, 1160.	2.6	0
40	FINITE AMPLITUDE TIDAL SANDBANKS: ONE-DIMENSIONAL EQUILIBRIUM PROFILES. , 2003, , .		0