

Daphne van der Wal

List of Publications by Year in descending order

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67
papers

3,154
citations

172457

29
h-index

155660

55
g-index

71
all docs

71
docs citations

71
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Vegetation causes channel erosion in a tidal landscape. <i>Geology</i> , 2007, 35, 631.	4.4	325
2	Self-Organization and Vegetation Collapse in Salt Marsh Ecosystems. <i>American Naturalist</i> , 2005, 165, E1-E12.	2.1	242
3	Beach-dune morphological relationships and erosion/accretion: An investigation at five sites in England and Wales using LIDAR data. <i>Geomorphology</i> , 2005, 72, 128-155.	2.6	184
4	Long-term morphological change in the Ribble Estuary, northwest England. <i>Marine Geology</i> , 2002, 189, 249-266.	2.1	160
5	Hydrodynamic forcing on salt-marsh development: Distinguishing the relative importance of waves and tidal flows. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 89, 73-88.	2.1	142
6	Patterns, rates and possible causes of saltmarsh erosion in the Greater Thames area (UK). <i>Geomorphology</i> , 2004, 61, 373-391.	2.6	138
7	Long-term morphological change and its causes in the Mersey Estuary, NW England. <i>Geomorphology</i> , 2006, 81, 185-206.	2.6	131
8	Windows of opportunity for salt marsh vegetation establishment on bare tidal flats: The importance of temporal and spatial variability in hydrodynamic forcing. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1450-1469.	3.0	112
9	Distinctly variable mudscapes: Distribution gradients of intertidal macrofauna across the Dutch Wadden Sea. <i>Journal of Sea Research</i> , 2013, 82, 103-116.	1.6	106
10	Spatial patterns, rates and mechanisms of saltmarsh cycles (Westerschelde, The Netherlands). <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 357-368.	2.1	98
11	Vegetation recovery in tidal marshes reveals critical slowing down under increased inundation. <i>Nature Communications</i> , 2017, 8, 15811.	12.8	86
12	Characterisation of surface roughness and sediment texture of intertidal flats using ERS SAR imagery. <i>Remote Sensing of Environment</i> , 2005, 98, 96-109.	11.0	80
13	Spatial Synchrony in Intertidal Benthic Algal Biomass in Temperate Coastal and Estuarine Ecosystems. <i>Estuaries and Coasts</i> , 2010, 33, 338-351.	3.4	75
14	Distribution and dynamics of intertidal macrobenthos predicted from remote sensing: response to microphytobenthos and environment. <i>Marine Ecology - Progress Series</i> , 2008, 367, 57-72.	1.9	73
15	The use of historical bathymetric charts in a GIS to assess morphological change in estuaries. <i>Geographical Journal</i> , 2003, 169, 21-31.	3.1	64
16	Conditional outcome of ecosystem engineering: A case study on tussocks of the salt marsh pioneer <i>Spartina anglica</i> . <i>Geomorphology</i> , 2012, 153-154, 232-238.	2.6	62
17	Regression-based synergy of optical, shortwave infrared and microwave remote sensing for monitoring the grain-size of intertidal sediments. <i>Remote Sensing of Environment</i> , 2007, 111, 89-106.	11.0	55
18	Impacts of salt marsh plants on tidal channel initiation and inheritance. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 385-400.	2.8	51

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19	Potential for Sudden Shifts in Transient Systems: Distinguishing Between Local and Landscape-Scale Processes. <i>Ecosystems</i> , 2008, 11, 1133-1141.	3.4	50
20	Zooming in and out: Scale dependence of extrinsic and intrinsic factors affecting salt marsh erosion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1455-1470.	2.8	50
21	Landscapes of facilitation: how self-organized patchiness of aquatic macrophytes promotes diversity in streams. <i>Ecology</i> , 2018, 99, 832-847.	3.2	50
22	Effects of fetch and surface texture on aeolian sand transport on two nourished beaches. <i>Journal of Arid Environments</i> , 1998, 39, 533-547.	2.4	48
23	Estuarine suspended particulate matter concentrations from sun-synchronous satellite remote sensing: Tidal and meteorological effects and biases. <i>Remote Sensing of Environment</i> , 2014, 143, 204-215.	11.0	44
24	Nature-Based Engineering: A Review on Reducing Coastal Flood Risk With Mangroves. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	44
25	A model to assess microphytobenthic primary production in tidal systems using satellite remote sensing. <i>Remote Sensing of Environment</i> , 2018, 211, 129-145.	11.0	37
26	Spatial heterogeneity in estuarine mud dynamics. <i>Ocean Dynamics</i> , 2010, 60, 519-533.	2.2	35
27	Continuous monitoring bed-level dynamics on an intertidal flat: Introducing novel, stand-alone high-resolution SED-sensors. <i>Geomorphology</i> , 2015, 245, 223-230.	2.6	33
28	Quantifying Bed Level Change at the Transition of Tidal Flat and Salt Marsh: Can We Understand the Lateral Location of the Marsh Edge?. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2509-2524.	2.8	32
29	Trends in the Seaward Extent of Saltmarshes across Europe from Long-Term Satellite Data. <i>Remote Sensing</i> , 2019, 11, 1653.	4.0	31
30	Beach-Dune Interactions in Nourishment Areas along the Dutch Coast. <i>Journal of Coastal Research</i> , 2004, 201, 317-325.	0.3	30
31	How to restore mangroves for greenbelt creation along eroding coasts with abandoned aquaculture ponds. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 235, 106576.	2.1	29
32	Hydrodynamic conditioning of diversity and functional traits in subtidal estuarine macrozoobenthic communities. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 197, 80-92.	2.1	28
33	Opportunities for Protecting and Restoring Tropical Coastal Ecosystems by Utilizing a Physical Connectivity Approach. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	26
34	Estuarine biofilm patterns: Modern analogues for Precambrian self-organization. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1141-1154.	2.5	26
35	Dynamic equilibrium behaviour observed on two contrasting tidal flats from daily monitoring of bed-level changes. <i>Geomorphology</i> , 2018, 311, 114-126.	2.6	25
36	Diversity, trait displacements and shifts in assemblage structure of tidal flat deposit feeders along a gradient of hydrodynamic stress. <i>Marine Ecology - Progress Series</i> , 2010, 406, 79-89.	1.9	25

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37	Ecological evaluation of an experimental beneficial use scheme for dredged sediment disposal in shallow tidal waters. <i>Marine Pollution Bulletin</i> , 2011, 62, 99-108.	5.0	22
38	Patterns and drivers of daily bed-level dynamics on two tidal flats with contrasting wave exposure. <i>Scientific Reports</i> , 2017, 7, 7088.	3.3	22
39	Long-term salt marsh vertical accretion in a tidal bay with reduced sediment supply. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 146, 14-23.	2.1	20
40	Remote Sensing of Epibenthic Shellfish Using Synthetic Aperture Radar Satellite Imagery. <i>Remote Sensing</i> , 2015, 7, 3710-3734.	4.0	20
41	Modelling aeolian sand transport and morphological development in two beach nourishment areas. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 77-92.	2.5	17
42	Self-organization of river vegetation leads to emergent buffering of river flows and water levels. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201147.	2.6	17
43	Turbulence-mediated facilitation of resource uptake in patchy stream macrophytes. <i>Limnology and Oceanography</i> , 2019, 64, 714-727.	3.1	16
44	Seasonal and Spatial Variability in Patchiness of Microphytobenthos on Intertidal Flats From Sentinel-2 Satellite Imagery. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	16
45	Effects of mud sedimentation on lugworm ecosystem engineering. <i>Journal of Sea Research</i> , 2011, 65, 170-181.	1.6	15
46	On the use of large-scale biodegradable artificial reefs for intertidal foreshore stabilization. <i>Ecological Engineering</i> , 2021, 170, 106354.	3.6	14
47	Spatial variability in macrofaunal diet composition and grazing pressure on microphytobenthos in intertidal areas. <i>Limnology and Oceanography</i> , 2020, 65, 2819-2834.	3.1	13
48	Flow-divergence feedbacks control propagule retention by in-stream vegetation: the importance of spatial patterns for facilitation. <i>Aquatic Sciences</i> , 2019, 81, 1.	1.5	12
49	Response of intertidal benthic macrofauna to migrating megaripples and hydrodynamics. <i>Marine Ecology - Progress Series</i> , 2017, 585, 17-30.	1.9	12
50	Drivers of the spatial phytoplankton gradient in estuarine-coastal systems: generic implications of a case study in a Dutch tidal bay. <i>Biogeosciences</i> , 2020, 17, 4135-4152.	3.3	11
51	Plants face the flow in V formation: A study of plant patch alignment in streams. <i>Limnology and Oceanography</i> , 2019, 64, 1087-1102.	3.1	10
52	Synchronized high-resolution bed-level change and biophysical data from 10 marsh mudflat sites in northwestern Europe. <i>Earth System Science Data</i> , 2021, 13, 405-416.	9.9	9
53	The development of a digital terrain model for the geomorphological engineering of the "rolling" foredune of Terschelling, the Netherlands. <i>Journal of Coastal Conservation</i> , 1996, 2, 55-62.	1.6	8
54	Ecosystem Engineering Effects of <i>Aster tripolium</i> and <i>Salicornia procumbens</i> Salt Marsh on Macrofaunal Community Structure. <i>Estuaries and Coasts</i> , 2012, 35, 714-726.	2.2	8

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55	Biophysical control of intertidal benthic macroalgae revealed by high-frequency multispectral camera images. <i>Journal of Sea Research</i> , 2014, 90, 111-120.	1.6	8
56	How grazing management can maximize erosion resistance of salt marshes. <i>Journal of Applied Ecology</i> , 2021, 58, 1533-1544.	4.0	8
57	The impact of sea bottom effects on the retrieval of water constituent concentrations from MERIS and OLCI images in shallow tidal waters supported by radiative transfer modeling. <i>Remote Sensing of Environment</i> , 2020, 237, 111596.	11.0	7
58	Conditional effects of tides and waves on short-term marsh sedimentation dynamics. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2243-2255.	2.5	6
59	Salt marsh fragmentation in a mesotidal estuary: Implications for medium to long-term management. <i>Science of the Total Environment</i> , 2022, 846, 157410.	8.0	6
60	Using Remote Sensing to Identify Drivers behind Spatial Patterns in the Bio-physical Properties of a Saltmarsh Pioneer. <i>Remote Sensing</i> , 2019, 11, 511.	4.0	5
61	Algal-Induced Biogeomorphic Feedbacks Lay the Groundwork for Coastal Wetland Development. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006515.	3.0	5
62	Shellfish Reefs Increase Water Storage Capacity on Intertidal Flats Over Extensive Spatial Scales. <i>Ecosystems</i> , 2018, 21, 360-372.	3.4	4
63	Indicators of Expansion and Retreat of Phragmites Based on Optical and Radar Satellite Remote Sensing: a Case Study on the Danube Delta. <i>Wetlands</i> , 2021, 41, 1.	1.5	4
64	Flow Velocity and Morphology of a Submerged Patch of the Aquatic Species <i>Veronica anagallis-aquatica</i> L.. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2016, , 141-152.	0.2	4
65	Timing recovery of ecosystems in sequential remotely sensed and simulated data. <i>Protocol Exchange</i> , 0, , .	0.3	2
66	The importance of marshes providing soil stabilization to resist fast-flow erosion in case of a dike breach. <i>Ecological Applications</i> , 2022, , e2622.	3.8	2
67	Low altitude remote sensing. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1