

# Ian J Walker

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

3,088  
citations

172386  
29  
h-index

161767  
54  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1903  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coastal vulnerability across the Pacific dominated by El Niño/Southern Oscillation. <i>Nature Geoscience</i> , 2015, 8, 801-807.	5.4	279
2	Dynamics of secondary airflow and sediment transport over and in the lee of transverse dunes. <i>Progress in Physical Geography</i> , 2002, 26, 47-75.	1.4	192
3	The effects of surface moisture on aeolian sediment transport threshold and mass flux on a beach. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 55-74.	1.2	147
4	Numerical modelling of flow structures over idealized transverse aeolian dunes of varying geometry. <i>Geomorphology</i> , 2004, 59, 149-164.	1.1	141
5	Flow dynamics over a foredune at Prince Edward Island, Canada. <i>Geomorphology</i> , 2005, 65, 71-84.	1.1	131
6	Simulation and measurement of surface shear stress over isolated and closely spaced transverse dunes in a wind tunnel. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 1111-1124.	1.2	130
7	Post-glacial sea-level change along the Pacific coast of North America. <i>Quaternary Science Reviews</i> , 2014, 97, 170-192.	1.4	117
8	Scale-dependent perspectives on the geomorphology and evolution of beach-dune systems. <i>Earth-Science Reviews</i> , 2017, 171, 220-253.	4.0	110
9	Frequency and magnitude biases in the Fryberger model, with implications for characterizing geomorphically effective winds. <i>Geomorphology</i> , 2005, 68, 39-55.	1.1	108
10	Wind direction and complex sediment transport response across a beach-dune system. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1661-1677.	1.2	97
11	Physical and logistical considerations of using ultrasonic anemometers in aeolian sediment transport research. <i>Geomorphology</i> , 2005, 68, 57-76.	1.1	83
12	High-frequency sediment transport responses on a vegetated foredune. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1227-1241.	1.2	83
13	Secondary airflow and sediment transport in the lee of a reversing dune. <i>Earth Surface Processes and Landforms</i> , 1999, 24, 437-448.	1.2	80
14	Topographic Steering of Alongshore Airflow over a Vegetated Foredune: Greenwich Dunes, Prince Edward Island, Canada. <i>Journal of Coastal Research</i> , 2006, 225, 1278-1291.	0.1	80
15	Responses of three-dimensional flow to variations in the angle of incident wind and profile form of dunes: Greenwich Dunes, Prince Edward Island, Canada. <i>Geomorphology</i> , 2009, 105, 127-138.	1.1	78
16	Annual to decadal morphodynamics of the foredune system at Greenwich Dunes, Prince Edward Island, Canada. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 284-298.	1.2	74
17	Sediment budget controls on foredune height: Comparing simulation model results with field data. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1798-1810.	1.2	72
18	Flow deflection over a foredune. <i>Geomorphology</i> , 2015, 230, 64-74.	1.1	69

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19	Quantifying sand storage capacity of large woody debris on beaches using LiDAR. <i>Geomorphology</i> , 2010, 118, 33-47.	1.1	55
20	Airflow and sand transport variations within a backshoreâ€“parabolic dune plain complex: NE Graham Island, British Columbia, Canada. <i>Geomorphology</i> , 2006, 77, 17-34.	1.1	54
21	A post-glacial sea level hinge on the central Pacific coast of Canada. <i>Quaternary Science Reviews</i> , 2014, 97, 148-169.	1.4	53
22	Assessing significant geomorphic changes and effectiveness of dynamic restoration in a coastal dune ecosystem. <i>Geomorphology</i> , 2013, 199, 192-204.	1.1	50
23	Three-dimensional Aeolian dynamics within a bowl blowout during offshore winds: Greenwich Dunes, Prince Edward Island, Canada. <i>Aeolian Research</i> , 2012, 3, 389-399.	1.1	45
24	Secondary flow deflection in the lee of transverse dunes with implications for dune morphodynamics and migration. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1642-1654.	1.2	40
25	Reynolds stress and sand transport over a foredune. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1735-1747.	1.2	40
26	Spatialâ€“temporal evolution of aeolian blowout dunes at Cape Cod. <i>Geomorphology</i> , 2015, 236, 148-162.	1.1	39
27	Turbulent Reynolds stress and quadrant event activity in wind flow over a coastal foredune. <i>Geomorphology</i> , 2012, 151-152, 1-12.	1.1	38
28	Analysis of coastal dune dynamics, shoreline position, and large woody debris at Wickaninnish Bay, Pacific Rim National Park, British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2011, 48, 1185-1198.	0.6	36
29	Beachâ€“dune sediment budgets and dune morphodynamics following coastal dune restoration, Wickaninnish Dunes, Canada. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1370-1385.	1.2	32
30	Recent shoreline evolution and beach erosion along the central Adriatic coast of Italy: the case of Molise region. <i>Journal of Coastal Conservation</i> , 2018, 22, 879-895.	0.7	32
31	Artificial modifications of the coast in response to the Deepwater Horizon oil spill: quick solutions or long-term liabilities?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 44-49.	1.9	30
32	Aeolian dynamics over a coastal foredune, Prince Edward Island, Canada. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1566-1575.	1.2	30
33	Three years of morphologic changes at a bowl blowout, Cape Cod, USA. <i>Geomorphology</i> , 2017, 295, 452-466.	1.1	28
34	Monitoring considerations for a dynamic dune restoration project: Pacific Rim National Park Reserve, British Columbia, Canada.. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 983-993.	1.2	26
35	Sediment transport (dis)continuity across a beachâ€“dune profile during an offshore wind event. <i>Geomorphology</i> , 2015, 245, 135-148.	1.1	25
36	Aeolian sand transport and deposition patterns within a large woody debris matrix fronting a foredune. <i>Geomorphology</i> , 2019, 338, 1-15.	1.1	24

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37	Assessing aeolian beach surface dynamics using a remote sensing approach. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1651-1660.	1.2	23
38	Foredune morphodynamics and sediment budgets at seasonal to decadal scales: Humboldt Bay National Wildlife Refuge, California, USA. <i>Geomorphology</i> , 2018, 318, 69-87.	1.1	23
39	Quantifying spatial and temporal trends in beach dune volumetric changes using spatial statistics. <i>Geomorphology</i> , 2013, 191, 94-108.	1.1	22
40	Topographic change and numerically modelled near surface wind flow in a bowl blowout. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1988-1999.	1.2	21
41	Sea level responses to climatic variability and change in northern British Columbia. <i>Atmosphere - Ocean</i> , 2008, 46, 277-296.	0.6	20
42	Airflow Dynamics over a Beach and Foredune System with Large Woody Debris. <i>Geosciences (Switzerland)</i> , 2018, 8, 147.	1.0	17
43	Erosive water level regime and climatic variability forcing of beach dune systems on southwestern Vancouver Island, British Columbia, Canada. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 751-762.	1.2	16
44	Assessing Geomorphic Change in Restored Coastal Dune Ecosystems Using a Multi-Platform Aerial Approach. <i>Remote Sensing</i> , 2021, 13, 354.	1.8	16
45	A glacial readvance during retreat of the Cordilleran Ice Sheet, British Columbia central coast. <i>Quaternary Research</i> , 2017, 87, 468-481.	1.0	15
46	Floodplain formation processes and archaeological implications at the Grand Banks site, lower Grand River, southern, Ontario. <i>Geoarchaeology - an International Journal</i> , 1997, 12, 865-887.	0.7	14
47	The Role of Large Woody Debris in Beach Dune Interaction. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2854-2876.	1.0	14
48	Flow within a Trough Blowout at Cape Cod. <i>Journal of Coastal Research</i> , 2016, 75, 288-292.	0.1	13
49	Geomorphic and sediment volume responses of a coastal dune complex following invasive vegetation removal. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1148-1159.	1.2	12
50	Air flow and sediment transport dynamics on a foredune with contrasting vegetation cover. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2811-2829.	1.2	9
51	Evaluation of the optimal resolution for characterizing the effect of beach surface moisture derived from remote sensing on aeolian transport. <i>Journal of Coastal Research</i> , 2013, 165, 1277-1282.	0.1	8
52	Vertical Land Motion as a Driver of Coastline Changes on a Deltaic System in the Colombian Caribbean. <i>Geosciences (Switzerland)</i> , 2021, 11, 300.	1.0	8
53	Evolution of a foredune and backshore river complex on a high-energy, drift-aligned beach. <i>Geomorphology</i> , 2015, 248, 440-451.	1.1	7
54	Late Quaternary landscape evolution in a region of stable postglacial relative sea levels, British Columbia central coast, Canada. <i>Boreas</i> , 2018, 47, 738-753.	1.2	7

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55	Aeolian (windblown) sand transport over beaches. , 2020, , 213-253.		7
56	Identifying sites of high geoarchaeological potential using aerial LIDAR and GIS on Quadra Island, Canada. Journal of Island and Coastal Archaeology, 2021, 16, 482-508.	0.6	6
57	Airflow Dynamics Over Unvegetated and Vegetated Dunes. , 2022, , 415-453.		6
58	Dynamic restoration and the impact of native versus invasive vegetation on coastal foredune morphodynamics, Lanphere Dunes, California, USA. Earth Surface Processes and Landforms, 2022, 47, 3083-3099.	1.2	6
59	Changing views in Canadian geomorphology: are we seeing the landscape for the processes?. Canadian Geographer / Geographie Canadien, 2010, 54, 261-276.	1.0	5
60	Applying planetary mapping methods to submarine environments: onshore-offshore geomorphology of Christiana-Santorini-Kolumbo Volcanic Group, Greece. Journal of Maps, 2021, 17, 111-121.	1.0	4
61	Pedological trends and implications for forest productivity in a Holocene soil chronosequence, Calvert Island, British Columbia, Canada. Canadian Journal of Soil Science, 2021, 101, 654-672.	0.5	4
62	Coastal Dunes. , 2022, , 540-591.		4
63	Dirt cracking as rock fracture-wedging process in the Mediterranean climate of Victoria, British Columbia, Canada. Catena, 2022, 210, 105920.	2.2	1