

# Bernard Bauer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/811529/publications.pdf>

Version: 2024-02-01

29  
papers

1,694  
citations

331259

21  
h-index

476904

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

972  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A general framework for modeling sediment supply to coastal dunes including wind angle, beach geometry, and fetch effects. <i>Geomorphology</i> , 2003, 49, 89-108.                                  | 1.1 | 230       |
| 2  | Dynamics of beach-dune systems. <i>Progress in Physical Geography</i> , 1993, 17, 413-447.   | 1.4 | 191       |
| 3  | Scale-dependent perspectives on the geomorphology and evolution of beach-dune systems. <i>Earth-Science Reviews</i> , 2017, 171, 220-253.  | 4.0 | 110       |
| 4  | Sources of Uncertainty in Shear Stress and Roughness Length Estimates Derived from Velocity Profiles— . <i>Professional Geographer</i> , 1992, 44, 453-464.  | 1.0 | 104       |
| 5  | 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        |
| 6  | High—frequency sediment transport responses on a vegetated foredune. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1227-1241.   | 1.2 | 83        |
| 7  | Turbulent flow over a dune: Green River, Colorado. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 289-304.   | 1.2 | 78        |
| 8  | 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        |
| 9  | Estimating Boat-Wake-Induced Levee Erosion using Sediment Suspension Measurements. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2002, 128, 152-162.                             | 0.5 | 75        |
| 10 | 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        |
| 11 | Flow deflection over a foredune. <i>Geomorphology</i> , 2015, 230, 64-74.  | 1.1 | 69        |
| 12 | Design and field test of a continuously weighing, tipping-bucket assembly for aeolian sand traps. <i>Earth Surface Processes and Landforms</i> , 1998, 23, 1171-1183.                                | 1.2 | 49        |
| 13 | Aeolian particle flux profiles and transport unsteadiness. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1542-1563.   | 1.0 | 47        |
| 14 | Reynolds stress and sand transport over a foredune. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1735-1747.  | 1.2 | 40        |
| 15 | 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        |
| 16 | Aeolian dynamics over a coastal foredune, Prince Edward Island, Canada. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1566-1575.  | 1.2 | 30        |
| 17 | Aeolian Decoupling of Beach Sediments. <i>Annals of the American Association of Geographers</i> , 1991, 81, 290-303.   | 3.0 | 27        |
| 18 | Sediment transport (dis)continuity across a beach—dune profile during an offshore wind event. <i>Geomorphology</i> , 2015, 245, 135-148.   | 1.1 | 25        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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        |
| 20 | Assessing aeolian beach-surface dynamics using a remote sensing approach. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1651-1660.   | 1.2 | 23        |
| 21 | 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        |
| 22 | Controls on the geomorphic response of beach-dune systems to water level rise. <i>Journal of Great Lakes Research</i> , 2021, 47, 1594-1612.  | 0.8 | 18        |
| 23 | Airflow Dynamics over a Beach and Foredune System with Large Woody Debris. <i>Geosciences (Switzerland)</i> , 2018, 8, 147.   | 1.0 | 17        |
| 24 | Waves and Sandbar Erosion in the Grand Canyon: Applying Coastal Theory to a Fluvial System. <i>Annals of the American Association of Geographers</i> , 1993, 83, 475-497.                                 | 3.0 | 14        |
| 25 | 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        |
| 26 | CFD simulations of wind flow across scarped foredunes: Implications for sediment pathways and beach-dune recovery after storms. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2989-3015.       | 1.2 | 10        |
| 27 | 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         |
| 28 | On the frequency response of a Wenglor particle-counting system for aeolian transport measurements. <i>Aeolian Research</i> , 2018, 32, 133-140.  | 1.1 | 8         |
| 29 | A preliminary assessment of machine learning algorithms for predicting CFD-simulated wind flow patterns over idealised foredunes. <i>Journal of the Royal Society of New Zealand</i> , 2021, 51, 290-306. | 1.0 | 8         |