Daniel Buscombe

List of Publications by Year
in descending order

48 papers	1,330 citations	361413 20 h-index	361022 35 g-index
65 all docs	65 docs citations	65 times ranked	1265 citing authors

#	Article	IF	Citations
1	Concepts in gravel beach dynamics. Earth-Science Reviews, 2006, 79, 33-52.	9.1	175
2	Grainâ€size information from the statistical properties of digital images of sediment. Sedimentology, 2009, 56, 421-438.	3.1	81
3	Transferable wavelet method for grainâ€size distribution from images of sediment surfaces and thin sections, and other natural granular patterns. Sedimentology, 2013, 60, 1709-1732.	3.1	77
4	Landscape Classification with Deep Neural Networks. Geosciences (Switzerland), 2018, 8, 244.	2.2	72
5	Cobble cam: grainâ€size measurements of sand to boulder from digital photographs and autocorrelation analyses. Earth Surface Processes and Landforms, 2009, 34, 1811-1821.	2.5	71
6	A universal approximation of grain size from images of noncohesive sediment. Journal of Geophysical Research, 2010, 115, .	3.3	71
7	Estimation of grain-size distributions and associated parameters from digital images of sediment. Sedimentary Geology, 2008, 210, 1-10.	2.1	62
8	Morphological change and sediment dynamics of the beach step on a macrotidal gravel beach. Marine Geology, 2008, 249, 167-183.	2.1	50
9	Barrier dynamics experiment (BARDEX): Aims, design and procedures. Coastal Engineering, 2012, 63, 3-12.	4.0	40
10	Shallow water benthic imaging and substrate characterization using recreational-grade sidescan-sonar. Environmental Modelling and Software, 2017, 89, 1-18.	4.5	39
11	SediNet: a configurable deep learning model for mixed qualitative and quantitative optical granulometry. Earth Surface Processes and Landforms, 2020, 45, 638-651.	2.5	36
12	Optical wave gauging using deep neural networks. Coastal Engineering, 2020, 155, 103593.	4.0	34
13	Effective shear stress of graded sediments. Water Resources Research, 2012, 48, .	4.2	31
14	Evaluating Unsupervised Methods to Size and Classify Suspended Particles Using Digital In-Line Holography. Journal of Atmospheric and Oceanic Technology, 2015, 32, 1241-1256.	1.3	31
15	Currents, drag, and sediment transport induced by a tsunami. Journal of Geophysical Research, 2012, 117, .	3.3	30
16	A Data-Driven Approach to Classifying Wave Breaking in Infrared Imagery. Remote Sensing, 2019, 11, 859.	4.0	27
17	Estimating the settling velocity of bioclastic sediment using common grainâ€size analysis techniques. Sedimentology, 2017, 64, 987-1004.	3.1	26
18	Sediment trend models fail to reproduce small-scale sediment transport patterns on an intertidal beach. Sedimentology, 2008, 55, 667-687.	3.1	25

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19	Comprehensive Field Study of Swash-Zone Processes. I: Experimental Design with Examples of Hydrodynamic and Sediment Transport Measurements. Journal of Waterway, Port, Coastal and Ocean Engineering, 2014, 140, 14-28.	1.2	24
20	Probabilistic Substrate Classification with Multispectral Acoustic Backscatter: A Comparison of Discriminative and Generative Models. Geosciences (Switzerland), 2018, 8, 395.	2.2	21
21	Characterizing riverbed sediment using high-frequency acoustics: 1. Spectral properties of scattering. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2674-2691.	2.8	20
22	Estimating sand bed load in rivers by tracking dunes: a comparison of methods based on bed elevation time series. Earth Surface Dynamics, 2020, 8, 161-172.	2.4	20
23	Automated Riverbed Sediment Classification Using Low-Cost Sidescan Sonar. Journal of Hydraulic Engineering, 2016, 142, .	1.5	19
24	Characterizing riverbed sediment using high-frequency acoustics: 2. Scattering signatures of Colorado River bed sediment in Marble and Grand Canyons. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2692-2710.	2.8	17
25	Spatially explicit spectral analysis of point clouds and geospatial data. Computers and Geosciences, 2016, 86, 92-108.	4.2	17
26	Seeking the Shore: Evidence for Active Submarine Canyon Head Incision Due to Coarse Sediment Supply and Focusing of Wave Energy. Geophysical Research Letters, 2018, 45, 12,403.	4.0	17
27	Compositional Signatures in Acoustic Backscatter Over Vegetated and Unvegetated Mixed Sandâ€Gravel Riverbeds. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1771-1793.	2.8	16
28	How many measurements are required to construct an accurate sand budget in a large river? Insights from analyses of signal and noise. Earth Surface Processes and Landforms, 2019, 44, 160-178.	2.5	15
29	Estimating Bedload From Suspended Load and Water Discharge in Sand Bed Rivers. Water Resources Research, 2020, 56, e2019WR025883.	4.2	15
30	Labeling Poststorm Coastal Imagery for Machine Learning: Measurement of Interrater Agreement. Earth and Space Science, 2021, 8, e2021EA001896.	2.6	13
31	Autonomous bed-sediment imaging-systems for revealing temporal variability of grain size. Limnology and Oceanography: Methods, 2014, 12, 390-406.	2.0	12
32	A Mixed Length Scale Model for Migrating Fluvial Bedforms. Geophysical Research Letters, 2020, 47, e10.1029/2019GL086625.	4.0	12
33	Alluvial substrate mapping by automated texture segmentation of recreational-grade side scan sonar imagery. PLoS ONE, 2018, 13, e0194373.	2.5	11
34	Humanâ€inâ€theâ€Loop Segmentation of Earth Surface Imagery. Earth and Space Science, 2022, 9, .	2.6	11
35	Quantifying and forecasting changes in the areal extent of river valley sediment in response to altered hydrology and land cover. Progress in Physical Geography, 2018, 42, 739-764.	3.2	10
36	Advances in the simulation and automated measurement of wellâ€sorted granular material: 2. Direct measures of particle properties. Journal of Geophysical Research, 2012, 117, .	3.3	7

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37	Causes of Variability in Suspendedâ€Sand Concentration Evaluated Using Measurements in the Colorado River in Grand Canyon. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005226.	2.8	7
38	Geometry of obstacle marks at instream bouldersâ€"integration of laboratory investigations and field observations. Earth Surface Processes and Landforms, 2021, 46, 659-679.	2.5	6
39	Advances in the simulation and automated measurement of wellâ€sorted granular material: 1. Simulation. Journal of Geophysical Research, 2012, 117, .	3.3	5
40	Bed texture mapping in large rivers using recreational-grade sidescan sonar. , 2016, , .		2
41	SCHMIDT NUMBER OF SAND SUSPENSIONS UNDER OSCILLATING GRID TURBULENCE. Coastal Engineering Proceedings, 2012, 1, 20.	0.1	2
42	USE OF DIGITAL HOLOGRAPHIC CAMERAS TO EXAMINE THE MEASUREMENT AND UNDERSTANDING OF SEDIMENT SUSPENSION IN THE NEARSHORE. Coastal Engineering Proceedings, 2012, 1, 73.	0.1	2
43	GROUNDWATER SEEPAGE BETWEEN A GRAVEL BARRIER BEACH AND A FRESHWATER LAGOON. , 2009, , .		2
44	The use of continuous sedimentâ€transport measurements to improve sandâ€load estimates in a large sandâ€bedded river: The lower Chippewa River, Wisconsin. Earth Surface Processes and Landforms, 2022, 47, 2006-2023.	2.5	2
45	MONITORING STORM IMPACTS ON A GRAVEL BEACH USING THE ARGUS VIDEO SYSTEM. , 2009, , .		1
46	COMPREHENSIVE STUDY OF SWASH-ZONE HYDRODYNAMICS AND SEDIMENT TRANSPORT. Coastal Engineering Proceedings, 2012, 1, 1.	0.1	1
47	Field Observations of Step Dynamics on a Macrotidal Gravel Beach. , 2007, , .		0
48	GRANULAR PROPERTIES FROM DIGITAL IMAGES OF SEDIMENT: IMPLICATIONS FOR COASTAL SEDIMENT TRANSPORT MODELLING. , 2009, , .		0