

Daniel Buscombe

List of Publications by Year in descending order

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Version: 2024-02-01

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	Humanâ€inâ€theâ€Loop Segmentation of Earth Surface Imagery. Earth and Space Science, 2022, 9, .	2.6	11
2	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
3	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
4	Labeling Poststorm Coastal Imagery for Machine Learning: Measurement of Interrater Agreement. Earth and Space Science, 2021, 8, e2021EA001896.	2.6	13
5	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
6	Estimating Bedload From Suspended Load and Water Discharge in Sand Bed Rivers. Water Resources Research, 2020, 56, e2019WR025883.	4.2	15
7	Optical wave gauging using deep neural networks. Coastal Engineering, 2020, 155, 103593.	4.0	34
8	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
9	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
10	A Mixed Length Scale Model for Migrating Fluvial Bedforms. Geophysical Research Letters, 2020, 47, e10.1029/2019GL086625.	4.0	12
11	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
12	A Data-Driven Approach to Classifying Wave Breaking in Infrared Imagery. Remote Sensing, 2019, 11, 859.	4.0	27
13	Probabilistic Substrate Classification with Multispectral Acoustic Backscatter: A Comparison of Discriminative and Generative Models. Geosciences (Switzerland), 2018, 8, 395.	2.2	21
14	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
15	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
16	Landscape Classification with Deep Neural Networks. Geosciences (Switzerland), 2018, 8, 244.	2.2	72
17	Alluvial substrate mapping by automated texture segmentation of recreational-grade side scan sonar imagery. PLoS ONE, 2018, 13, e0194373.	2.5	11
18	Shallow water benthic imaging and substrate characterization using recreational-grade sidescan-sonar. Environmental Modelling and Software, 2017, 89, 1-18.	4.5	39

#	ARTICLE	IF	CITATIONS
19	Compositional Signatures in Acoustic Backscatter Over Vegetated and Unvegetated Mixed Sand&Gravel Riverbeds. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1771-1793.	2.8	16
20	Estimating the settling velocity of bioclastic sediment using common grain&size analysis techniques. <i>Sedimentology</i> , 2017, 64, 987-1004.	3.1	26
21	Spatially explicit spectral analysis of point clouds and geospatial data. <i>Computers and Geosciences</i> , 2016, 86, 92-108.	4.2	17
22	Automated Riverbed Sediment Classification Using Low-Cost Sidescan Sonar. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	1.5	19
23	Bed texture mapping in large rivers using recreational-grade sidescan sonar. , 2016, , .		2
24	Evaluating Unsupervised Methods to Size and Classify Suspended Particles Using Digital In-Line Holography. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1241-1256.	1.3	31
25	Comprehensive Field Study of Swash-Zone Processes. I: Experimental Design with Examples of Hydrodynamic and Sediment Transport Measurements. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2014, 140, 14-28.	1.2	24
26	Characterizing riverbed sediment using high-frequency acoustics: 1. Spectral properties of scattering. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2674-2691.	2.8	20
27	Characterizing riverbed sediment using high-frequency acoustics: 2. Scattering signatures of Colorado River bed sediment in Marble and Grand Canyons. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2692-2710.	2.8	17
28	Autonomous bed-sediment imaging-systems for revealing temporal variability of grain size. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 390-406.	2.0	12
29	Transferable wavelet method for grain&size distribution from images of sediment surfaces and thin sections, and other natural granular patterns. <i>Sedimentology</i> , 2013, 60, 1709-1732.	3.1	77
30	Effective shear stress of graded sediments. <i>Water Resources Research</i> , 2012, 48, .	4.2	31
31	Advances in the simulation and automated measurement of well&sorted granular material: 2. Direct measures of particle properties. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
32	Currents, drag, and sediment transport induced by a tsunami. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
33	Advances in the simulation and automated measurement of well&sorted granular material: 1. Simulation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	5
34	Barrier dynamics experiment (BARDEX): Aims, design and procedures. <i>Coastal Engineering</i> , 2012, 63, 3-12.	4.0	40
35	SCHMIDT NUMBER OF SAND SUSPENSIONS UNDER OSCILLATING GRID TURBULENCE. <i>Coastal Engineering Proceedings</i> , 2012, 1, 20.	0.1	2
36	USE OF DIGITAL HOLOGRAPHIC CAMERAS TO EXAMINE THE MEASUREMENT AND UNDERSTANDING OF SEDIMENT SUSPENSION IN THE NEARSHORE. <i>Coastal Engineering Proceedings</i> , 2012, 1, 73.	0.1	2

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37	COMPREHENSIVE STUDY OF SWASH-ZONE HYDRODYNAMICS AND SEDIMENT TRANSPORT. Coastal Engineering Proceedings, 2012, 1, 1.	0.1	1
38	A universal approximation of grain size from images of noncohesive sediment. Journal of Geophysical Research, 2010, 115, .	3.3	71
39	Cobble cam: grain size measurements of sand to boulder from digital photographs and autocorrelation analyses. Earth Surface Processes and Landforms, 2009, 34, 1811-1821.	2.5	71
40	Grain size information from the statistical properties of digital images of sediment. Sedimentology, 2009, 56, 421-438.	3.1	81
41	MONITORING STORM IMPACTS ON A GRAVEL BEACH USING THE ARGUS VIDEO SYSTEM. , 2009, , .		1
42	GRANULAR PROPERTIES FROM DIGITAL IMAGES OF SEDIMENT: IMPLICATIONS FOR COASTAL SEDIMENT TRANSPORT MODELLING. , 2009, , .		0
43	GROUNDWATER SEEPAGE BETWEEN A GRAVEL BARRIER BEACH AND A FRESHWATER LAGOON. , 2009, , .		2
44	Morphological change and sediment dynamics of the beach step on a macrotidal gravel beach. Marine Geology, 2008, 249, 167-183.	2.1	50
45	Estimation of grain-size distributions and associated parameters from digital images of sediment. Sedimentary Geology, 2008, 210, 1-10.	2.1	62
46	Sediment trend models fail to reproduce small-scale sediment transport patterns on an intertidal beach. Sedimentology, 2008, 55, 667-687.	3.1	25
47	Field Observations of Step Dynamics on a Macrotidal Gravel Beach. , 2007, , .		0
48	Concepts in gravel beach dynamics. Earth-Science Reviews, 2006, 79, 33-52.	9.1	175