

James Brasington

List of Publications by Year in descending order

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51
papers

8,023
citations

117619

34
h-index

182417

51
g-index

57
all docs

57
docs citations

57
times ranked

7718
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-from-Motion™ photogrammetry: A low-cost, effective tool for geoscience applications. <i>Geomorphology</i> , 2012, 179, 300-314.	2.6	2,743
2	Modeling the topography of shallow braided rivers using Structure-from-Motion photogrammetry. <i>Geomorphology</i> , 2014, 213, 166-182.	2.6	523
3	Accounting for uncertainty in DEMs from repeat topographic surveys: improved sediment budgets. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 136-156.	2.5	474
4	Methodological sensitivity of morphometric estimates of coarse fluvial sediment transport. <i>Geomorphology</i> , 2003, 53, 299-316.	2.6	426
5	Monitoring and modelling morphological change in a braided gravel-bed river using high resolution GPS-based survey. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 973-990.	2.5	365
6	Object-based land cover classification using airborne LiDAR. <i>Remote Sensing of Environment</i> , 2008, 112, 2988-2998.	11.0	333
7	Modeling river bed morphology, roughness, and surface sedimentology using high resolution terrestrial laser scanning. <i>Water Resources Research</i> , 2012, 48, .	4.2	250
8	Modelling outburst floods from moraine-dammed glacial lakes. <i>Earth-Science Reviews</i> , 2014, 134, 137-159.	9.1	206
9	Geomorphic dynamics of floodplains: ecological implications and a potential modelling strategy. <i>Freshwater Biology</i> , 2002, 47, 559-579.	2.4	183
10	Morphodynamic signatures of braiding mechanisms as expressed through change in sediment storage in a gravel-bed river. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 759-779.	2.8	146
11	Hyperscale terrain modelling of braided rivers: fusing mobile terrestrial laser scanning and optical bathymetric mapping. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 167-183.	2.5	139
12	Analysing laser-scanned digital terrain models of gravel bed surfaces: linking morphology to sediment transport processes and hydraulics. <i>Sedimentology</i> , 2009, 56, 2024-2043.	3.1	137
13	Reduced complexity strategies for modelling urban floodplain inundation. <i>Geomorphology</i> , 2007, 90, 226-243.	2.6	111
14	Coupling agent-based models of subsistence farming with individual-based forest models and dynamic models of water distribution. <i>Environmental Modelling and Software</i> , 2009, 24, 173-190.	4.5	104
15	Linking geomorphic changes to salmonid habitat at a scale relevant to fish. <i>River Research and Applications</i> , 2010, 26, 469-486.	1.7	101
16	Linking the spatial distribution of bed load transport to morphological change during high-flow events in a shallow braided river. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 604-622.	2.8	98
17	Small-catchment perspective on Himalayan weathering fluxes. <i>Geology</i> , 2002, 30, 355.	4.4	96
18	Turbidity and suspended sediment dynamics in small catchments in the Nepal Middle Hills. <i>Hydrological Processes</i> , 2000, 14, 2559-2574.	2.6	94

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19	<i>In situ</i> characterization of grain-scale fluvial morphology using Terrestrial Laser Scanning. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 954-968.	2.5	92
20	Interactions between model predictions, parameters and DTM scales for topmodel. <i>Computers and Geosciences</i> , 1998, 24, 299-314.	4.2	88
21	Assessment of a numerical model to reproduce event-scale erosion and deposition distributions in a braided river. <i>Water Resources Research</i> , 2016, 52, 6621-6642.	4.2	88
22	Numerical Modelling of Braided River Morphodynamics: Review and Future Challenges. <i>Geography Compass</i> , 2016, 10, 102-127.	2.7	84
23	Hydraulic validation of two-dimensional simulations of braided river flow with spatially continuous ADCP data. <i>Water Resources Research</i> , 2013, 49, 5183-5205.	4.2	83
24	Accuracy assessment of aerial photographs acquired using lighter-than-air blimps: low-cost tools for mapping river corridors. <i>River Research and Applications</i> , 2009, 25, 985-1000.	1.7	78
25	Close range digital photogrammetric analysis of experimental drainage basin evolution. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 231-247.	2.5	76
26	Computational and methodological aspects of terrestrial surface analysis based on point clouds. <i>Computers and Geosciences</i> , 2012, 42, 64-70.	4.2	76
27	Patterns of topographic change in sub-humid badlands determined by high resolution multi-temporal topographic surveys. <i>Catena</i> , 2014, 120, 164-176.	5.0	74
28	Monitoring and modelling particle and reach-scale morphological change in gravel-bed rivers: Applications and challenges. <i>Geomorphology</i> , 2008, 93, 40-54.	2.6	73
29	Determining leaf area index and leafy tree roughness using terrestrial laser scanning. <i>Water Resources Research</i> , 2010, 46, .	4.2	67
30	End-to-end flood risk assessment: A coupled model cascade with uncertainty estimation. <i>Water Resources Research</i> , 2008, 44, .	4.2	51
31	Reconstructing historic Glacial Lake Outburst Floods through numerical modelling and geomorphological assessment: Extreme events in the Himalaya. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1675-1692.	2.5	45
32	Monitoring Braided River Change Using Terrestrial Laser Scanning and Optical Bathymetric Mapping. <i>Developments in Earth Surface Processes</i> , 2011, 15, 507-532.	2.8	41
33	Leafless roughness of complex tree morphology using terrestrial lidar. <i>Water Resources Research</i> , 2009, 45, .	4.2	38
34	Numerical modelling of glacial lake outburst floods using physically based dam-breach models. <i>Earth Surface Dynamics</i> , 2015, 3, 171-199.	2.4	32
35	Numerical Modelling of Braided Rivers with Structure-from-Motion-Derived Terrain Models. <i>River Research and Applications</i> , 2016, 32, 1071-1081.	1.7	32
36	Discrete-element, individual-based and agent-based models: Tools for interdisciplinary enquiry in geography?. <i>Geoforum</i> , 2008, 39, 625-642.	2.5	30

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37	Analysis of reach-scale elevation distribution in braided rivers: Definition of a new morphologic indicator and estimation of mean quantities. <i>Water Resources Research</i> , 2016, 52, 5951-5970.	4.2	29
38	Hydropeaked rivers need attention. <i>Environmental Research Letters</i> , 2021, 16, 021001.	5.2	29
39	Burrowing Invasive Species: An Unquantified Erosion Risk at the Aquatic-Terrestrial Interface. <i>Reviews of Geophysics</i> , 2019, 57, 1018-1036.	23.0	28
40	Retrieval of vegetative fluid resistance terms for rigid stems using airborne lidar. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
41	A physically-based bedload transport model developed for 3-D reach-scale cellular modelling. <i>Geomorphology</i> , 2007, 90, 244-262.	2.6	23
42	Geomorphic impact and assessment of flexible barriers using multi-temporal LiDAR data: The Portain mountain catchment (Pyrenees). <i>Engineering Geology</i> , 2018, 237, 168-180.	6.3	22
43	Let's get connected: A new graph theory-based approach and toolbox for understanding braided river morphodynamics. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1296.	6.5	19
44	Monitoring gravel framework dilation using a new digital particle tracking method. <i>Computers and Geosciences</i> , 2000, 26, 329-340.	4.2	14
45	Geomorphology of the Rees Valley, Otago, New Zealand. <i>Journal of Maps</i> , 2014, 10, 136-150.	2.0	10
46	Modelling braided river morphodynamics using a particle travel length framework. <i>Earth Surface Dynamics</i> , 2019, 7, 247-274.	2.4	9
47	River research and applications across borders. <i>River Research and Applications</i> , 2019, 35, 768-775.	1.7	7
48	Topological structures of river networks and their regional-scale controls: A multivariate classification approach. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2869-2883.	2.5	6
49	Mean flow and turbulence structure over exposed roots on a forested floodplain: Insights from a controlled laboratory experiment. <i>PLoS ONE</i> , 2020, 15, e0229306.	2.5	3
50	Monitoring and modelling morphological change in a braided gravel-bed river using high resolution GPS-based survey. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 973-990.	2.5	2
51	<title>Sensitivity of morphometric estimates of sediment transport in large gravel-bed rivers</title>. , 2002, , .		0