James Brasington

List of Publications by Year in descending order

51 papers	8,023 citations	117625 34 h-index	182427 51 g-index
57 all docs	57 docs citations	57 times ranked	7718 citing authors

#	Article	IF	Citations
1	Hydropeaked rivers need attention. Environmental Research Letters, 2021, 16, 021001.	5.2	29
2	Topological structures of river networks and their regionalâ€scale controls: A multivariate classification approach. Earth Surface Processes and Landforms, 2020, 45, 2869-2883.	2.5	6
3	Mean flow and turbulence structure over exposed roots on a forested floodplain: Insights from a controlled laboratory experiment. PLoS ONE, 2020, 15, e0229306.	2.5	3
4	Burrowing Invasive Species: An Unquantified Erosion Risk at the Aquaticâ€Terrestrial Interface. Reviews of Geophysics, 2019, 57, 1018-1036.	23.0	28
5	Modelling braided river morphodynamics using a particle travel length framework. Earth Surface Dynamics, 2019, 7, 247-274.	2.4	9
6	River research and applications across borders. River Research and Applications, 2019, 35, 768-775.	1.7	7
7	Geomorphic impact and assessment of flexible barriers using multi-temporal LiDAR data: The PortainÃ© mountain catchment (Pyrenees). Engineering Geology, 2018, 237, 168-180.	6.3	22
8	Let's get connected: A new graph theoryâ€based approach and toolbox for understanding braided river morphodynamics. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1296.	6.5	19
9	Numerical Modelling of Braided Rivers with Structureâ€fromâ€Motionâ€Derived Terrain Models. River Research and Applications, 2016, 32, 1071-1081.	1.7	32
10	Analysis of reachâ€scale elevation distribution in braided rivers: Definition of a new morphologic indicator and estimation of mean quantities. Water Resources Research, 2016, 52, 5951-5970.	4.2	29
11	Assessment of a numerical model to reproduce eventâ€scale erosion and deposition distributions in a braided river. Water Resources Research, 2016, 52, 6621-6642.	4.2	88
12	Numerical Modelling of Braided River Morphodynamics: Review and Future Challenges. Geography Compass, 2016, 10, 102-127.	2.7	84
13	Linking the spatial distribution of bed load transport to morphological change during highâ€flow events in a shallow braided river. Journal of Geophysical Research F: Earth Surface, 2015, 120, 604-622.	2.8	98
14	Numerical modelling of glacial lake outburst floods using physically based dam-breach models. Earth Surface Dynamics, 2015, 3, 171-199.	2.4	32
15	Geomorphology of the Rees Valley, Otago, New Zealand. Journal of Maps, 2014, 10, 136-150.	2.0	10
16	Hyperscale terrain modelling of braided rivers: fusing mobile terrestrial laser scanning and optical bathymetric mapping. Earth Surface Processes and Landforms, 2014, 39, 167-183.	2.5	139
17	Reconstructing historic Glacial Lake Outburst Floods through numerical modelling and geomorphological assessment: Extreme events in the Himalaya. Earth Surface Processes and Landforms, 2014, 39, 1675-1692.	2.5	45
18	Modelling outburst floods from moraine-dammed glacial lakes. Earth-Science Reviews, 2014, 134, 137-159.	9.1	206

#	Article	IF	Citations
19	Modeling the topography of shallow braided rivers using Structure-from-Motion photogrammetry. Geomorphology, 2014, 213, 166-182.	2.6	523
20	Patterns of topographic change in sub-humid badlands determined by high resolution multi-temporal topographic surveys. Catena, 2014, 120, 164-176.	5.0	74
21	Morphodynamic signatures of braiding mechanisms as expressed through change in sediment storage in a gravelâ€bed river. Journal of Geophysical Research F: Earth Surface, 2013, 118, 759-779.	2.8	146
22	Hydraulic validation of two-dimensional simulations of braided river flow with spatially continuous aDcp data. Water Resources Research, 2013, 49, 5183-5205.	4.2	83
23	Modeling river bed morphology, roughness, and surface sedimentology using high resolution terrestrial laser scanning. Water Resources Research, 2012, 48, .	4.2	250
24	â€˜Structure-from-Motionâ€™ photogrammetry: A low-cost, effective tool for geoscience applications. Geomorphology, 2012, 179, 300-314.	2.6	2,743
25	Computational and methodological aspects of terrestrial surface analysis based on point clouds. Computers and Geosciences, 2012, 42, 64-70.	4.2	76
26	Monitoring Braided River Change Using Terrestrial Laser Scanning and Optical Bathymetric Mapping. Developments in Earth Surface Processes, 2011, 15, 507-532.	2.8	41
27	Accounting for uncertainty in DEMs from repeat topographic surveys: improved sediment budgets. Earth Surface Processes and Landforms, 2010, 35, 136-156.	2.5	474
28	Linking geomorphic changes to salmonid habitat at a scale relevant to fish. River Research and Applications, 2010, 26, 469-486.	1.7	101
29	Determining leaf area index and leafy tree roughness using terrestrial laser scanning. Water Resources Research, 2010, 46, .	4.2	67
30	In situ characterization of grainâ€scale fluvial morphology using Terrestrial Laser Scanning. Earth Surface Processes and Landforms, 2009, 34, 954-968.	2.5	92
31	Accuracy assessment of aerial photographs acquired using lighterâ€thanâ€air blimps: lowâ€cost tools for mapping river corridors. River Research and Applications, 2009, 25, 985-1000.	1.7	78
32	Analysing laserâ€scanned digital terrain models of gravel bed surfaces: linking morphology to sediment transport processes and hydraulics. Sedimentology, 2009, 56, 2024-2043.	3.1	137
33	Coupling agent-based models of subsistence farming with individual-based forest models and dynamic models of water distribution. Environmental Modelling and Software, 2009, 24, 173-190.	4.5	104
34	Leafless roughness of complex tree morphology using terrestrial lidar. Water Resources Research, 2009, 45, .	4.2	38
35	Object-based land cover classification using airborne LiDAR. Remote Sensing of Environment, 2008, 112, 2988-2998.	11.0	333
36	Discrete-element, individual-based and agent-based models: Tools for interdisciplinary enquiry in geography?. Geoforum, 2008, 39, 625-642.	2.5	30

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37	Retrieval of vegetative fluid resistance terms for rigid stems using airborne lidar. Journal of Geophysical Research, 2008, 113, .	3.3	27
38	Endâ€toâ€end flood risk assessment: A coupled model cascade with uncertainty estimation. Water Resources Research, 2008, 44, .	4.2	51
39	Monitoring and modelling particle and reach-scale morphological change in gravel-bed rivers: Applications and challenges. Geomorphology, 2008, 93, 40-54.	2.6	73
40	A physically-based bedload transport model developed for 3-D reach-scale cellular modelling. Geomorphology, 2007, 90, 244-262.	2.6	23
41	Reduced complexity strategies for modelling urban floodplain inundation. Geomorphology, 2007, 90, 226-243.	2.6	111
42	Close range digital photogrammetric analysis of experimental drainage basin evolution. Earth Surface Processes and Landforms, 2003, 28, 231-247.	2.5	76
43	Methodological sensitivity of morphometric estimates of coarse fluvial sediment transport. Geomorphology, 2003, 53, 299-316.	2.6	426
44	Small-catchment perspective on Himalayan weathering fluxes. Geology, 2002, 30, 355.	4.4	96
45	<title>Sensitivity of morphometric estimates of sediment transport in large gravel-bed rivers</title>. , 2002, , .		0
46	Geomorphic dynamics of floodplains: ecological implications and a potential modelling strategy. Freshwater Biology, 2002, 47, 559-579.	2.4	183
47	Monitoring and modelling morphological change in a braided gravel-bed river using high resolution GPS-based survey. Earth Surface Processes and Landforms, 2000, 25, 973-990.	2.5	365
48	Turbidity and suspended sediment dynamics in small catchments in the Nepal Middle Hills. Hydrological Processes, 2000, 14, 2559-2574.	2.6	94
49	Monitoring gravel framework dilation using a new digital particle tracking method. Computers and Geosciences, 2000, 26, 329-340.	4.2	14
50	Monitoring and modelling morphological change in a braided gravelâ€bed river using high resolution GPSâ€based survey. Earth Surface Processes and Landforms, 2000, 25, 973-990.	2.5	2
51	Interactions between model predictions, parameters and DTM scales for topmodel. Computers and Geosciences, 1998, 24, 299-314.	4.2	88