John K Hillier

List of Publications by Citations

48 papers	916 citations	18 h-index	29 g-index
76 ext. papers	1,162 ext. citations	4.8 avg, IF	4.56 L-index

#	Paper	IF	Citations
48	Global distribution of seamounts from ship-track bathymetry data. *Geophysical Research Letters*, **2007**, 34, n/a-n/a	4.9	76
47	Relationship between depth and age in the North Pacific Ocean. *Journal of Geophysical Research*, **2005**, 110,		69
46	Assessment of multiresolution segmentation for delimiting drumlins in digital elevation models. *Geomorphology*, **2014**, 214, 452-464	4.3	59
45	Subducted seafloor relief stops rupture in South American great earthquakes: Implications for rupture behaviour in the 2010 Maule, Chile earthquake. *Earth and Planetary Science Letters*, **2010**, 298, 89-94	5.3	52
44	Structural properties of mobile armors formed at different flow strengths in gravel-bed rivers. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 1494-1515	3.8	50
43	Residual relief separation: digital elevation model enhancement for geomorphological mapping. *Earth Surface Processes and Landforms*, **2008**, 33, 2266-2276	3.7	49
42	Monuments on a migrating Nile. *Journal of Archaeological Science*, **2007**, 34, 1011-1015	2.9	41
41	Extending natural hazard impacts: an assessment of landslide disruptions on a national road transportation network. *Environmental Research Letters*, **2017**, 12, 014010	6.2	35
40	Pacific seamount volcanism in space and time. *Geophysical Journal International*, **2007**, 168, 877-889	2.6	32
39	Plate-like subsidence of the East Pacific Rise South Pacific superswell system. *Journal of Geophysical Research*, **2004**, 109,		32
38	The dirty dozen of freshwater science: detecting then reconciling hydrological data biases and errors. *Wiley Interdisciplinary Reviews: Water*, **2017**, 4, e1209	5.7	31
37	Subglacial bedforms reveal an exponential size frequency distribution. *Geomorphology*, **2013**, 190, 82-91	4.3	27
36	Comparing threshold definition techniques for rainfall-induced landslides: A national assessment using radar rainfall. *Earth Surface Processes and Landforms*, **2018**, 43, 553-560	3.7	26
35	Intensity-duration-frequency curves at the global scale. *Environmental Research Letters*, **2019**, 14, 084045	6.2	25
34	An ice-sheet scale comparison of eskers with modelled subglacial drainage routes. *Geomorphology*, **2015**, 246, 104-112	4.3	24
33	Manual mapping of drumlins in synthetic landscapes to assess operator effectiveness. *Journal of Maps*, **2015**, 11, 719-729	2.2	22
32	Frontiers in Geomorphometry and Earth Surface Dynamics: possibilities, limitations and perspectives. *Earth Surface Dynamics*, **2016**, 4, 721-725	3.8	22

31	Extreme multi-basin flooding linked with extra-tropical cyclones. *Environmental Research Letters*, **2017**, 12, 114009	6.2	20
30	Subsidence of "normal" seafloor: Observations do indicate "flattening". *Journal of Geophysical Research*, **2010**, 115,		18
29	Seamount detection and isolation with a modified wavelet transform. *Basin Research*, **2008**, 20, 555-573	3.2	18
28	Innovative analysis and use of high-resolution DTMs for quantitative interrogation of Earth-surface processes. *Earth Surface Processes and Landforms*, **2014**, 39, 1400-1403	3.7	17
27	Testing 3D landform quantification methods with synthetic drumlins in a real digital elevation model. *Geomorphology*, **2012**, 153-154, 61-73	4.3	15
26	Interactions between apparently "primary" weather-driven hazards and their cost. *Environmental Research Letters*, **2015**, 10, 104003	6.2	14
25	An integration to optimally constrain the thermal structure of oceanic lithosphere. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 432-446	3.6	13
24	Molards as an indicator of permafrost degradation and landslide processes. *Earth and Planetary Science Letters*, **2019**, 516, 136-147	5.3	11
23	Debris-flow release processes investigated through the analysis of multi-temporal LiDAR datasets in north-western Iceland. *Earth Surface Processes and Landforms*, **2019**, 44, 144-159	3.7	9
22	Perspective "synthetic DEMs: A vital underpinning for the quantitative future of landform analysis?. *Earth Surface Dynamics*, **2015**, 3, 587-598	3.8	9
21	Testing techniques to quantify drumlin height and volume: synthetic DEMs as a diagnostic tool. *Earth Surface Processes and Landforms*, **2014**, 39, 676-688	3.7	9
20	Exploring Explanations of Subglacial Bedform Sizes Using Statistical Models. *PLoS ONE*, **2016**, 11, e0159489	3.7	9
19	Technical note: comparison of methods for threshold selection for extreme sea levels. *Journal of Flood Risk Management*, **2018**, 11, 127-140	3.1	7
18	Testing and application of a model for snow redistribution (Snow_Blow) in the Ellsworth Mountains, Antarctica. *Journal of Glaciology*, **2019**, 65, 957-970	3.4	7
17	Counting better? An examination of the impact of quantitative method teaching on statistical anxiety and confidence. *Active Learning in Higher Education*, **2015**, 16, 51-66	2.6	6
16	Submarine Geomorphology. *Developments in Earth Surface Processes*, **2011**, 359-375	2.8	6
15	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. *Earth's Future*, **2021**, 9, e2021EF002340	7.9	6
14	Production and preservation of the smallest drumlins. *Gff*, **2018**, 140, 136-152	0.9	5

13	The application of componentised modelling techniques to catastrophe model generation. *Environmental Modelling and Software*, **2014**, 61, 65-77	5.2	5
12	EditorialSubmarine geomorphology: new views on an "unseen" landscape. *Basin Research*, **2008**, 20, 467-472	3.2	5
11	Demystifying academics to enhance university–business collaborations in environmental science. *Geoscience Communication*, **2019**, 2, 1-23	0.7	4
10	Comment on "Mantle flow drives the subsidence of oceanic plates". *Science*, **2011**, 331, 1011; author reply 1011	33.3	3
9	Seasonal impact-based mapping of compound hazards. *Environmental Research Letters*, **2020**, 15, 114013	6.2	3
8	Past and Projected Weather Pattern Persistence with Associated Multi-Hazards in the British Isles. *Atmosphere*, **2019**, 10, 577	2.7	2
7	"A Picture Is Worth 10,000 Words": A Module to Test the "Visualization Hypothesis" in Quantitative Methods Teaching. *Enhancing Learning in the Social Sciences*, **2014**, 6, 90-104		2
6	The impact of ground-ice thaw on landslide geomorphology and dynamics: two case studies in northern Iceland. *Landslides*, **2021**, 18, 2785-2812	6.6	2
5	The potential for the use of model fusion techniques in building and developing catastrophe models. *Geological Society Special Publication*, **2017**, 408, 89-99	1.7	1
4	Disaster Risk Finance in Developing Countries: An Overview With Particular Reference to Indonesia. *SSRN Electronic Journal*,	1	1
3	The Perils in Brief **2017**, 187-296		
2	GC Insights: Identifying conditions that sculpted bedforms – human insights to building an effective AI (artificial intelligence). *Geoscience Communication*, **2022**, 5, 11-15	0.7	
1	Geovisualization **2021**,		