Martin D Hurst

List of Publications by Year
in descending order

27 papers	1,189 citations	430874 18 h-index	526287 27 g-index
51 all docs	51 docs citations	51 times ranked	1184 citing authors

#	Article	IF	Citations
1	Using hilltop curvature to derive the spatial distribution of erosion rates. Journal of Geophysical Research, 2012, 117, .	3.3	131
2	Objective extraction of channel heads from high-resolution topographic data. Water Resources Research, 2014, 50, 4283-4304.	4.2	123
3	Impact of change in erosion rate and landscape steepness on hillslope and fluvial sediments grain size in the Feather River basin (Sierra Nevada, California). Earth Surface Dynamics, 2015, 3, 201-222.	2.4	110
4	Recent acceleration in coastal cliff retreat rates on the south coast of Great Britain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13336-13341.	7.1	90
5	How concave are river channels?. Earth Surface Dynamics, 2018, 6, 505-523.	2.4	70
6	Influence of lithology on hillslope morphology and response to tectonic forcing in the northern Sierra Nevada of California. Journal of Geophysical Research F: Earth Surface, 2013, 118, 832-851.	2.8	63
7	Hillslopes Record the Growth and Decay of Landscapes. Science, 2013, 341, 868-871.	12.6	62
8	Geomorphometric delineation of floodplains and terraces from objectively defined topographic thresholds. Earth Surface Dynamics, 2017, 5, 369-385.	2.4	53
9	How long is a hillslope?. Earth Surface Processes and Landforms, 2016, 41, 1039-1054.	2.5	52
10	Exploring the sensitivities of crenulate bay shorelines to wave climates using a new vector-based one-line model. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2586-2608.	2.8	50
11	A segmentation approach for the reproducible extraction and quantification of knickpoints from river long profiles. Earth Surface Dynamics, 2019, 7, 211-230.	2.4	48
12	The CAIRN method: automated, reproducible calculation of catchment-averaged denudation rates from cosmogenic nuclide concentrations. Earth Surface Dynamics, 2016, 4, 655-674.	2.4	47
13	A nondimensional framework for exploring the relief structure of landscapes. Earth Surface Dynamics, 2016, 4, 309-325.	2.4	37
14	Controls on the magnitude-frequency scaling of an inventory of secular landslides. Earth Surface Dynamics, 2013, 1, 67-78.	2.4	32
15	Impact of Changing Concavity Indices on Channel Steepness and Divide Migration Metrics. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF006060.	2.8	24
16	Erosion of rocky shore platforms by block detachment from layered stratigraphy. Earth Surface Processes and Landforms, 2020, 45, 1028-1037.	2.5	23
17	Controls on the distribution of cosmogenic &lt;sup&gt;10&lt;/sup&gt;Be across shore platforms. Earth Surface Dynamics, 2017, 5, 67-84.	2.4	21
18	Growing topography due to contrasting rock types in a tectonically dead landscape. Earth Surface Dynamics, 2021, 9, 167-181.	2.4	21

#	Article	IF	Citations
19	Detection of channel-hillslope coupling along a tectonic gradient. Earth and Planetary Science Letters, 2019, 522, 30-39.	4.4	20
20	Cosmogenic exposure dating reveals limited long-term variability in erosion of a rocky coastline. Nature Communications, 2020, 11, 3804.	12.8	19
21	Differences in channel and hillslope geometry record a migrating uplift wave at the Mendocino triple junction, California, USA. Geology, 2020, 48, 184-188.	4.4	18
22	Coastal Modelling Environment version 1.0: aÂframework for integrating landform-specific component models in order to simulate decadal to centennial morphological changes on complex coasts. Geoscientific Model Development, 2017, 10, 2715-2740.	3.6	17
23	Development of an automatic delineation of cliff top and toe on very irregular planform coastlines (CliffMetrics v1.0). Geoscientific Model Development, 2018, 11, 4317-4337.	3.6	16
24	Complex coastlines responding to climate change:Âdo shoreline shapes reflect present forcing or â€œrememberâ€•the distant past?. Earth Surface Dynamics, 2016, 4, 871-884.	2.4	15
25	Coastal vulnerability of a pinned, soft-cliff coastline, II: assessing the influence of sea walls on future morphology. Earth Surface Dynamics, 2014, 2, 233-242.	2.4	10
26	Multi-objective optimisation of a rock coast evolution model with cosmogenic &lt;sup&gt;10&lt;/sup&gt;Be analysis for the quantification of long-term cliff retreat rates. Earth Surface Dynamics, 2021, 9, 1505-1529.	2.4	5
27	â€˜In the critical departmentâ€™: refreshing the <i>Scottish Geographical Journal</i>. Scottish Geographical Journal, 0, , 1-15.	1.1	5