

Matthew J Westoby

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,999
citations

361413

20
h-index

526287

27
g-index

47
all docs

47
docs citations

47
times ranked

5435
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	A massive rock and ice avalanche caused the 2021 disaster at Chamoli, Indian Himalaya. <i>Science</i> , 2021, 373, 300-306.	12.6	304
3	Modelling outburst floods from moraine-dammed glacial lakes. <i>Earth-Science Reviews</i> , 2014, 134, 137-159.	9.1	206
4	Cost-effective erosion monitoring of coastal cliffs. <i>Coastal Engineering</i> , 2018, 138, 152-164.	4.0	69
5	Three-dimensional thermal characterization of forest canopies using UAV photogrammetry. <i>Remote Sensing of Environment</i> , 2018, 209, 835-847.	11.0	66
6	Sedimentological characterization of Antarctic moraines using UAVs and Structure-from-Motion photogrammetry. <i>Journal of Glaciology</i> , 2015, 61, 1088-1102.	2.2	60
7	Low-budget topographic surveying comes of age: Structure from motion photogrammetry in geography and the geosciences. <i>Progress in Physical Geography</i> , 2019, 43, 163-173.	3.2	49
8	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
9	Assessing climate change associated sea-level rise impacts on sea turtle nesting beaches using drones, photogrammetry and a novel GPS system. <i>Global Change Biology</i> , 2019, 25, 753-762.	9.5	40
10	Mid-Holocene pulse of thinning in the Weddell Sea sector of the West Antarctic ice sheet. <i>Nature Communications</i> , 2016, 7, 12511.	12.8	39
11	Interannual surface evolution of an Antarctic blue-ice moraine using multi-temporal DEMs. <i>Earth Surface Dynamics</i> , 2016, 4, 515-529.	2.4	35
12	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
13	Processes at the margins of supraglacial debris cover: Quantifying dirty ice ablation and debris redistribution. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2272-2290.	2.5	32
14	Evidence for the stability of the West Antarctic Ice Sheet divide for 1.4 million years. <i>Nature Communications</i> , 2016, 7, 10325.	12.8	31
15	Reconstructing the Chongbaxia Tsho glacial lake outburst flood in the Eastern Himalaya: Evolution, process and impacts. <i>Geomorphology</i> , 2020, 370, 107393.	2.6	29
16	Geomorphological evolution of a debris-covered glacier surface. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3431-3448.	2.5	29
17	The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica. <i>Earth and Planetary Science Letters</i> , 2017, 469, 42-52.	4.4	26
18	Resolving Fine-Scale Surface Features on Polar Sea Ice: A First Assessment of UAS Photogrammetry Without Ground Control. <i>Remote Sensing</i> , 2019, 11, 784.	4.0	25

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19	Seasonal Dynamics of a Temperate Tibetan Glacier Revealed by High-Resolution UAV Photogrammetry and In Situ Measurements. <i>Remote Sensing</i> , 2020, 12, 2389.	4.0	25
20	Controls on subaerial erosion rates in Antarctica. <i>Earth and Planetary Science Letters</i> , 2018, 501, 56-66.	4.4	21
21	Radar-Detected Englacial Debris in the West Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 10454-10462.	4.0	18
22	The sustainability of water resources in High Mountain Asia in the context of recent and future glacier change. <i>Geological Society Special Publication</i> , 2018, 462, 189-204.	1.3	16
23	Brief communication: An approximately 50% ice-rock avalanche on 22 March 2021 in the Sedongpu valley, southeastern Tibetan Plateau. <i>Cryosphere</i> , 2022, 16, 1333-1340.	3.9	16
24	Decoding Complex Erosion Responses for the Mitigation of Coastal Rockfall Hazards Using Repeat Terrestrial LiDAR. <i>Remote Sensing</i> , 2020, 12, 2620.	4.0	9
25	Intensified paraglacial slope failures due to accelerating downwasting of a temperate glacier in Mt. Gongga, southeastern Tibetan Plateau. <i>Earth Surface Dynamics</i> , 2022, 10, 23-42.	2.4	8
26	Using climate reanalysis data in conjunction with multi-temporal satellite thermal imagery to derive supraglacial debris thickness changes from energy-balance modelling. <i>Journal of Glaciology</i> , 2021, 67, 366-384.	2.2	5
27	Blue-ice moraines formation in the Heritage Range, West Antarctica: Implications for ice sheet history and climate reconstruction. <i>Quaternary Science Advances</i> , 2022, 6, 100051.	1.9	4
28	Corrigendum to "The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica" [<i>Earth and Planetary Science Letters</i> 469 (2017) 42-52]. <i>Earth and Planetary Science Letters</i> , 2018, 502, 291-292.	4.4	0