Alex Whittaker

List of Publications by Year
in descending order

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47 papers	1,673 citations	304743 22 h-index	289244 40 g-index
51 all docs	51 docs citations	51 times ranked	1427 citing authors

#	Article	IF	Citations
1	Decoding temporal and spatial patterns of fault uplift using transient river long profiles. Geomorphology, 2008, 100, 506-526.	2.6	177
2	Tectonic and climatic controls on knickpoint retreat rates and landscape response times. Journal of Geophysical Research, 2012, 117, .	3.3	154
3	Contrasting transient and steadyâ€state rivers crossing active normal faults: new field observations from the Central Apennines, Italy. Basin Research, 2007, 19, 529-556.	2.7	121
4	The Q_s problem: Sediment volumetric balance of proximal foreland basin systems. Sedimentology, 2013, 60, 102-130.	3.1	115
5	Characterising the origin, nature and fate of sediment exported from catchments perturbed by active tectonics. Basin Research, 2010, 22, 809-828.	2.7	87
6	Temporal buffering of climate-driven sediment flux cycles by transient catchment response. Earth and Planetary Science Letters, 2013, 369-370, 200-210.	4.4	85
7	Abrupt landscape change postâ€“6 Ma on the central Great Plains, USA. Geology, 2012, 40, 871-874.	4.4	60
8	Geomorphic significance of postglacial bedrock scarps on normal-fault footwalls. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	58
9	Lithological controls on hillslope sediment supply: insights from landslide activity and grain size distributions. Earth Surface Processes and Landforms, 2018, 43, 956-977.	2.5	56
10	Measuring alluvial fan sensitivity to past climate changes using a selfâ€similarity approach to grainâ€size fining, Death Valley, California. Sedimentology, 2017, 64, 388-424.	3.1	43
11	A <scp>C</scp>enozoic uplift history of <scp>M</scp>exico and its surroundings from longitudinal river profiles. Geochemistry, Geophysics, Geosystems, 2014, 15, 4734-4758.	2.5	42
12	Low-gradient, single-threaded rivers prior to greening of the continents. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11652-11657.	7.1	42
13	Normal fault growth and linkage in the Gediz (AlaÅŸehir) Graben, Western Turkey, revealed by transient river longâ€profiles and slopeâ€break knickpoints. Earth Surface Processes and Landforms, 2017, 42, 836-852.	2.5	40
14	Delayed delivery from the sediment factory: modeling the impact of catchment response time to tectonics on sediment flux and fluvioâ€deltaic stratigraphy. Earth Surface Processes and Landforms, 2014, 39, 689-704.	2.5	38
15	Geomorphic constraints on fault throw rates and linkage times: Examples from the Northern Gulf of Evia, Greece. Journal of Geophysical Research F: Earth Surface, 2015, 120, 137-158.	2.8	34
16	The shaping of erosional landscapes by internal dynamics. Nature Reviews Earth & Environment, 2020, 1, 661-676.	29.7	34
17	Glacial-interglacial climate changes recorded by debris flow fan deposits, Owens Valley, California. Quaternary Science Reviews, 2017, 169, 288-311.	3.0	32
18	Sourceâ€toâ€sink analysis in an active extensional setting: Holocene erosion and deposition in the Sperchios rift, central Greece. Basin Research, 2018, 30, 522-543.	2.7	32

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19	Grain-size trends reveal the late orogenic tectonic and erosional history of the southâ€“central Pyrenees, Spain. Journal of the Geological Society, 2012, 169, 111-114.	2.1	26
20	Are landscapes buffered to high-frequency climate change? A comparison of sediment fluxes and depositional volumes in the Corinth Rift, central Greece, over the past 130 k.y.. Bulletin of the Geological Society of America, 2019, 131, 372-388.	3.3	25
21	Sediment Transport Model For the Eocene Escanilla Sediment-Routing System: Implications For the Uniqueness of Sequence Stratigraphic Architectures. Journal of Sedimentary Research, 2015, 85, 1510-1524.	1.6	23
22	Continentalâ€Scale Landscape Evolution: A History of North American Topography. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2689-2722.	2.8	23
23	Dating alluvial fan surfaces in Owens Valley, California, using weathering fractures in boulders. Earth Surface Processes and Landforms, 2015, 40, 487-501.	2.5	22
24	Structural and geomorphological constraints on active normal faulting and landscape evolution in Calabria, Italy. Journal of the Geological Society, 2017, 174, 701-720.	2.1	22
25	Fragmentation Model of the Grain Size Mix of Sediment Supplied to Basins. Journal of Geology, 2015, 123, 405-427.	1.4	21
26	Comparison of methods to estimate sediment flux in ancient sediment routing systems. Earth-Science Reviews, 2020, 207, 103217.	9.1	21
27	Fractionation of grain size in terrestrial sediment routing systems. Basin Research, 2017, 29, 180-202.	2.7	20
28	Two decades of numerical modelling to understand long term fluvial archives: Advances and future perspectives. Quaternary Science Reviews, 2017, 166, 177-187.	3.0	18
29	10Be erosion rates controlled by transient response to normal faulting through incision and landsliding. Earth and Planetary Science Letters, 2019, 507, 140-153.	4.4	18
30	Growth of a thrust fault array in space and time: An example from the deep-water Niger delta. Journal of Structural Geology, 2020, 137, 104088.	2.3	18
31	Geomorphic evidence for the geometry and slip rate of a young, low-angle thrust fault: Implications for hazard assessment and fault interaction in complex tectonic environments. Earth and Planetary Science Letters, 2018, 504, 198-210.	4.4	16
32	Normal fault evolution and coupled landscape response: examples from the Southern Apennines, Italy. Basin Research, 2018, 30, 186-209.	2.7	15
33	Quantifying Sediment Transport Dynamics on Alluvial Fans From Spatial and Temporal Changes in Grain Size, Death Valley, California. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2039-2067.	2.8	15
34	Impact of climate on landscape form, sediment transfer and the sedimentary record. Earth Surface Processes and Landforms, 2021, 46, 990-1006.	2.5	14
35	Reconstructing the morphologies and hydrodynamics of ancient rivers from source to sink: Cretaceous Western Interior Basin, Utah, USA. Sedimentology, 2021, 68, 2854-2886.	3.1	14
36	Straight from the source's mouth: Controls on fieldâ€constrained sediment export across the entire active Corinth Rift, central Greece. Basin Research, 2020, 32, 1600-1625.	2.7	12

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37	Predicting sediment discharges and erosion rates in deep timeâ€"examples from the late Cretaceous North American continent. Basin Research, 2020, 32, 1547-1573.	2.7	12
38	Tectonics, sedimentation and surface processes: from the erosional engine to basin deposition. Earth Surface Processes and Landforms, 2015, 40, 1839-1846.	2.5	11
39	Quantifying the relationship between structural deformation and the morphology of submarine channels on the Niger Delta continental slope. Basin Research, 2021, 33, 186-209.	2.7	11
40	Source Region Geochemistry From Unmixing Downstream Sedimentary Elemental Compositions. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009838.	2.5	11
41	Applying Pattern Oriented Sampling in current fieldwork practice to enable more effective model evaluation in fluvial landscape evolution research. Earth Surface Processes and Landforms, 2018, 43, 2964-2980.	2.5	7
42	Fault Throw and Regional Uplift Histories From Drainage Analysis: Evolution of Southern Italy. Tectonics, 2021, 40, e2020TC006076.	2.8	7
43	Multivariate Statistical Appraisal of Regional Susceptibility to Induced Seismicity: Application to the Permian Basin, SW United States. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022768.	3.4	7
44	Quantifying the competing influences of lithology and throw rate on bedrock river incision. Bulletin of the Geological Society of America, 2021, 133, 1649-1664.	3.3	6
45	New statistical quantification of the impact of active deformation on the distribution of submarine channels. Geology, 0, , .	4.4	4
46	Quantifying structural controls on submarine channel architecture and kinematics. Bulletin of the Geological Society of America, 2022, 134, 928-940.	3.3	4
47	Tectonic controls on Quaternary landscape evolution in the Ventura basin, southern California, USA, quantified using cosmogenic isotopes and topographic analyses. Bulletin of the Geological Society of America, 0, , .	3.3	0