Oliver Korup

List of Publications by Year in descending order

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113 papers	7,294 citations	50244 46 h-index	58549 82 g-index
122 all docs	122 docs citations	122 times ranked	5222 citing authors

#	Article	IF	Citations
1	Landslide Hazards and Climate Change in High Mountains. , 2022, , 798-814.		2
2	Multiple landslide-damming episodes. , 2022, , 249-268.		0
3	Trends, Breaks, and Biases in the Frequency of Reported Glacier Lake Outburst Floods. Earth's Future, 2022, 10, .	2.4	24
4	Deep learning reveals one of Earth's largest landslide terrain in Patagonia. Earth and Planetary Science Letters, 2022, 593, 117642.	1.8	6
5	Bayesian geomorphology. Earth Surface Processes and Landforms, 2021, 46, 151-172.	1.2	10
6	How robust are landslide susceptibility estimates?. Landslides, 2021, 18, 681-695.	2.7	39
7	Tropical Mountain Rivers. , 2021, , .		0
8	Ice and snow as land-forming agents. , 2021, , 165-198.		2
9	Landslides in the Fluvial System. , 2021, , .		0
10	Cascading Hazards in the Aftermath of Australia's 2019/2020 Black Summer Wildfires. Earth's Future, 2021, 9, e2020EF001884.	2.4	32
11	Bayesian Detection of Streamflow Response to Earthquakes. Water Resources Research, 2021, 57, e2020WR028874.	1.7	1
12	Controls of outbursts of moraine-dammed lakes in the greater Himalayan region. Cryosphere, 2021, 15, 4145-4163.	1.5	10
13	Trees Talk Tremorâ€"Wood Anatomy and Content Reveal Contrasting Treeâ€Growth Responses to Earthquakes. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006385.	1.3	5
14	Predicting Patagonian Landslides: Roles of Forest Cover and Wind Speed. Geophysical Research Letters, 2021, 48, e2021GL095224.	1.5	5
15	Hazard from Himalayan glacier lake outburst floods. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 907-912.	3.3	153
16	Moraines and marls: Giant landslides of the Lago PueyrredÃ³n valley in Patagonia, Argentina. Quaternary Science Reviews, 2020, 248, 106598.	1.4	9
17	Postglacial Patagonian mass movement: From rotational slides and spreads to earthflows. Geomorphology, 2020, 367, 107316.	1.1	6
18	Earthquakeâ€Induced Chains of Geologic Hazards: Patterns, Mechanisms, and Impacts. Reviews of Geophysics, 2019, 57, 421-503.	9.0	505

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19	Effects of finite source rupture on landslide triggering: the 2016 <i>M</i>_wÂ7.1 Kumamoto earthquake. Solid Earth, 2019, 10, 463-486.	1.2	19
20	Unchanged frequency of moraine-dammed glacial lake outburst floods in the Himalaya. Nature Climate Change, 2019, 9, 379-383.	8.1	146
21	Increased landslide activity on forested hillslopes following two recent volcanic eruptions in Chile. Nature Geoscience, 2019, 12, 284-289.	5.4	47
22	Rockâ€glacier dams in High Asia. Earth Surface Processes and Landforms, 2019, 44, 808-824.	1.2	22
23	Protracted river response to medieval earthquakes. Earth Surface Processes and Landforms, 2019, 44, 331-341.	1.2	37
24	Rare flash floods and debris flows in southern Germany. Science of the Total Environment, 2018, 626, 941-952.	3.9	44
25	Detecting Himalayan glacial lake outburst floods from Landsat time series. Remote Sensing of Environment, 2018, 207, 84-97.	4.6	72
26	Permafrost activity and atmospheric warming in the Argentinian Andes. Geomorphology, 2018, 323, 13-24.	1.1	21
27	Topographic and Seismic Constraints on the Vulnerability of Himalayan Hydropower. Geophysical Research Letters, 2018, 45, 8985-8992.	1.5	31
28	Giant landslides in the foreland of the Patagonian Ice Sheet. Quaternary Science Reviews, 2018, 194, 39-54.	1.4	14
29	Complex networks for tracking extreme rainfall during typhoons. Chaos, 2018, 28, 075301.	1.0	28
30	Late quaternary fluvial incision and aggradation in the Lesser Himalaya, India. Quaternary Science Reviews, 2018, 197, 112-128.	1.4	6
31	A New Centennial Seaâ€Level Record for Antalya, Eastern Mediterranean. Journal of Geophysical Research: Oceans, 2018, 123, 4503-4517.	1.0	6
32	Late Pleistocene outburst floods from Issyk Kul, Kyrgyzstan?. Earth Surface Processes and Landforms, 2017, 42, 1535-1548.	1.2	11
33	Reply to Chong Xuâ€™s comment on Wang Y, Herzschuh U, Liu X, Korup O, Diekmann B (2014) A high-resolution sedimentary archive from landslide-dammed Lake Mengda, north-eastern Tibetan Plateau. J Paleolimnol 51: 303â€“312. Journal of Paleolimnology, 2017, 57, 163-164.	0.8	0
34	Catastrophic valley fills record large Himalayan earthquakes, Pokhara, Nepal. Quaternary Science Reviews, 2017, 177, 88-103.	1.4	26
35	Regional changes in streamflow after a megathrust earthquake. Earth and Planetary Science Letters, 2017, 458, 418-428.	1.8	75
36	Paleoseismic Record of Three Holocene Earthquakes Rupturing the Issykâ€Ata Fault near Bishkek, North Kyrgyzstan. Bulletin of the Seismological Society of America, 2017, 107, 2721-2737.	1.1	10

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37	Object-Based Detection of Lakes Prone to Seasonal Ice Cover on the Tibetan Plateau. Remote Sensing, 2017, 9, 339.	1.8	10
38	Regional snow-avalanche detection using object-based image analysis of near-infrared aerial imagery. Natural Hazards and Earth System Sciences, 2017, 17, 1823-1836.	1.5	25
39	Pyroclastic Eruption Boosts Organic Carbon Fluxes Into Patagonian Fjords. Global Biogeochemical Cycles, 2017, 31, 1626-1638.	1.9	13
40	Uncertainty in the Himalayan energyâ€“water nexus: estimating regional exposure to glacial lake outburst floods. Environmental Research Letters, 2016, 11, 074005.	2.2	98
41	Recycling of Pleistocene valley fills dominates 135Âka of sediment flux, upper Indus River. Quaternary Science Reviews, 2016, 149, 122-134.	1.4	12
42	Giant landslides and highstands of the Caspian Sea. Geology, 2016, 44, 939-942.	2.0	22
43	Repeated catastrophic valley infill following medieval earthquakes in the Nepal Himalaya. Science, 2016, 351, 147-150.	6.0	62
44	Monsoonal hillslope processes determine grain sizeâ€specific suspended sediment fluxes in a transâ€Himalayan river. Geophysical Research Letters, 2015, 42, 2302-2308.	1.5	32
45	Catastrophic mass wasting in high mountains. , 2015, , 127-146.		2
46	Roads at risk: traffic detours from debris flows in southern Norway. Natural Hazards and Earth System Sciences, 2015, 15, 985-995.	1.5	21
47	Immersive 3D geovisualization in higher education. Journal of Geography in Higher Education, 2015, 39, 437-449.	1.4	22
48	Limits to lichenometry. Quaternary Science Reviews, 2015, 129, 229-238.	1.4	23
49	On predicting debris flows in arid mountain belts. Global and Planetary Change, 2015, 126, 1-13.	1.6	23
50	Multiple Landslide-Damming Episodes. , 2015, , 241-261.		3
51	Large landslides lie low: Excess topography in the Himalaya-Karakoram ranges. Geology, 2015, 43, 523-526.	2.0	50
52	Ice and Snow as Land-Forming Agents. , 2015, , 167-199.		7
53	Massive biomass flushing despite modest channel response in the Rayas River following the 2008 eruption of ChaitÃ©n volcano, Chile. Geomorphology, 2015, 250, 397-406.	1.1	24
54	Soil erosion and organic carbon export by wet snow avalanches. Cryosphere, 2014, 8, 651-658.	1.5	19

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55	Seasonal logging, process response, and geomorphic work. Earth Surface Dynamics, 2014, 2, 117-125.	1.0	12
56	Bayesian network learning for natural hazard analyses. Natural Hazards and Earth System Sciences, 2014, 14, 2605-2626.	1.5	81
57	Postglacial denudation of western Tibetan Plateau margin outpaced by long-term exhumation. Bulletin of the Geological Society of America, 2014, 126, 1580-1594.	1.6	32
58	Rainfall conditions, typhoon frequency, and contemporary landslide erosion in Japan. Geology, 2014, 42, 999-1002.	2.0	62
59	Landslide prediction from machine learning. Geology Today, 2014, 30, 26-33.	0.3	102
60	Giant rockslides from the inside. Earth and Planetary Science Letters, 2014, 389, 62-73.	1.8	100
61	Japan's sediment flux to the Pacific Ocean revisited. Earth-Science Reviews, 2014, 135, 1-16.	4.0	18
62	A high-resolution sedimentary archive from landslide-dammed Lake Mengda, north-eastern Tibetan Plateau. Journal of Paleolimnology, 2014, 51, 303-312.	0.8	6
63	Estimating the topographic predictability of debris flows. Geomorphology, 2014, 207, 114-125.	1.1	19
64	Why so few? Landslides triggered by the 2002 Denali earthquake, Alaska. Quaternary Science Reviews, 2014, 95, 80-94.	1.4	85
65	Late Quaternary valley infill and dissection in the Indus River, western Tibetan Plateau margin. Quaternary Science Reviews, 2014, 94, 102-119.	1.4	58
66	13.17 Landslide Hazards and Climate Change in High Mountains. , 2013, , 288-301.		12
67	7.18 Long-Runout Landslides. , 2013, , 183-199.		7
68	9.15 Landslides in the Fluvial System. , 2013, , 244-259.		6
69	Complex rupture mechanism and topography control symmetry of mass-wasting pattern, 2010 Haiti earthquake. Geomorphology, 2013, 184, 127-138.	1.1	93
70	Millennial lag times in the Himalayan sediment routing system. Earth and Planetary Science Letters, 2013, 382, 38-46.	1.8	94
71	Supraâ€glacial deposition and flux of catastrophic rockâ€slope failure debris, southâ€central Alaska. Earth Surface Processes and Landforms, 2013, 38, 675-682.	1.2	35
72	Carbon burial in soil sediments from Holocene agricultural erosion, Central Europe. Global Biogeochemical Cycles, 2013, 27, 828-835.	1.9	70

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73	Detecting Potential Climate Signals in Large Slope Failures in Cold Mountain Regions. , 2013, , 361-367.		6
74	Transient water and sediment storage of the decaying landslide dams induced by the 2008 Wenchuan earthquake, China. Geomorphology, 2012, 171-172, 58-68.	1.1	83
75	Earth's portfolio of extreme sediment transport events. Earth-Science Reviews, 2012, 112, 115-125.	4.0	136
76	Is climate change responsible for changing landslide activity in high mountains?. Earth Surface Processes and Landforms, 2012, 37, 77-91.	1.2	312
77	Without power? Landslide inventories in the face of climate change. Earth Surface Processes and Landforms, 2012, 37, 92-99.	1.2	67
78	Quantifying rates and processes of landscape evolution. Earth Surface Processes and Landforms, 2012, 37, 249-251.	1.2	3
79	Rock type, precipitation, and the steepness of Himalayan threshold hillslopes. Geological Society Special Publication, 2011, 353, 235-249.	0.8	19
80	Preservation of inner gorges through repeated Alpine glaciations. Nature Geoscience, 2011, 4, 62-67.	5.4	55
81	Glacial advances constrained by ¹⁰Be exposure dating of bedrock landslides, Kyrgyz Tien Shan. Quaternary Research, 2011, 76, 295-304.	1.0	31
82	Rockslide and Rock Avalanche Dams in the Southern Alps, New Zealand. Lecture Notes in Earth Sciences, 2011, , 123-145.	0.5	3
83	Landslide erosion controlled by hillslope material. Nature Geoscience, 2010, 3, 247-251.	5.4	454
84	Glacier and landslide feedbacks to topographic relief in the Himalayan syntaxes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5317-5322.	3.3	148
85	A random kinetic energy model for rock avalanches: Eight case studies. Journal of Geophysical Research, 2010, 115, .	3.3	32
86	The role of landslides in mountain range evolution. Geomorphology, 2010, 120, 77-90.	1.1	285
87	Linking landslides, hillslope erosion, and landscape evolution. Earth Surface Processes and Landforms, 2009, 34, 1315-1317.	1.2	24
88	Rock-type control on erosion-induced uplift, eastern Swiss Alps. Earth and Planetary Science Letters, 2009, 278, 278-285.	1.8	66
89	Frictionite as evidence for a large Late Quaternary rockslide near Kanchenjunga, Sikkim Himalayas, India â€" Implications for extreme events in mountain relief destruction. Geomorphology, 2009, 103, 57-65.	1.1	52
90	Natural hazards, extreme events, and mountain topography. Quaternary Science Reviews, 2009, 28, 977-990.	1.4	121

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91	Quantifying postglacial sediment storage at the mountain-belt scale. Geology, 2009, 37, 1079-1082.	2.0	36
92	Tibetan plateau river incision inhibited by glacial stabilization of the Tsangpo gorge. Nature, 2008, 455, 786-789.	13.7	196
93	Rock type leaves topographic signature in landslideâ€dominated mountain ranges. Geophysical Research Letters, 2008, 35, .	1.5	62
94	Ice, moraine, and landslide dams in mountainous terrain. Quaternary Science Reviews, 2007, 26, 3406-3422.	1.4	178
95	Giant landslides, topography, and erosion. Earth and Planetary Science Letters, 2007, 261, 578-589.	1.8	302
96	Bedrock landsliding, river incision, and transience of geomorphic hillslopeâ€channel coupling: Evidence from inner gorges in the Swiss Alps. Journal of Geophysical Research, 2007, 112, .	3.3	66
97	Persistent alluvial fanhead trenching resulting from large, infrequent sediment inputs. Earth Surface Processes and Landforms, 2007, 32, 725-742.	1.2	74
98	Effects of large deep-seated landslides on hillslope morphology, western Southern Alps, New Zealand. Journal of Geophysical Research, 2006, 111, .	3.3	74
99	Rock-slope failure and the river long profile. Geology, 2006, 34, 45.	2.0	139
100	Fluvial response to large rock-slope failures: Examples from the Himalayas, the Tien Shan, and the Southern Alps in New Zealand. Geomorphology, 2006, 78, 3-21.	1.1	158
101	Extremely large rockslides and rock avalanches in the Tien Shan Mountains, Kyrgyzstan. Landslides, 2006, 3, 125-136.	2.7	95
102	Large landslides and their effect on sediment flux in South Westland, New Zealand. Earth Surface Processes and Landforms, 2005, 30, 305-323.	1.2	108
103	Geomorphic imprint of landslides on alpine river systems, southwest New Zealand. Earth Surface Processes and Landforms, 2005, 30, 783-800.	1.2	127
104	Distribution of landslides in southwest New Zealand. Landslides, 2005, 2, 43-51.	2.7	108
105	Geomorphic hazard assessment of landslide dams in South Westland, New Zealand: fundamental problems and approaches. Geomorphology, 2005, 66, 167-188.	1.1	98
106	Regional relief characteristics and denudation pattern of the western Southern Alps, New Zealand. Geomorphology, 2005, 71, 402-423.	1.1	44
107	Investigating Rock-Slope Failures in the Tien Shan: State-of-the-Art and Perspectives of International Cooperation (M111). , 2005, , 109-112.		1
108	Geomorphometric characteristics of New Zealand landslide dams. Engineering Geology, 2004, 73, 13-35.	2.9	199

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109	Geomorphic implications of fault zone weakening: Slope instability along the Alpine Fault, South Westland to Fiordland. New Zealand Journal of Geology, and Geophysics, 2004, 47, 257-267.	1.0	61
110	Sediment generation and delivery from large historic landslides in the Southern Alps, New Zealand. Geomorphology, 2004, 61, 189-207.	1.1	176
111	Landslide-induced river channel avulsions in mountain catchments of southwest New Zealand. Geomorphology, 2004, 63, 57-80.	1.1	97
112	Recent research on landslide dams - a literature review with special attention to New Zealand. Progress in Physical Geography, 2002, 26, 206-235.	1.4	197
113	Landslides in the Earth system. , 0, , 10-23.		3