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	Earthquakeâ€Induced Chains of Geologic Hazards: Patterns, Mechanisms, and Impacts. Reviews of Geophysics, 2019, 57, 421-503.	9.0	505
2	Landslide erosion controlled by hillslope material. Nature Geoscience, 2010, 3, 247-251.	5.4	454
3	Is climate change responsible for changing landslide activity in high mountains?. Earth Surface Processes and Landforms, 2012, 37, 77-91.	1.2	312
4	Giant landslides, topography, and erosion. Earth and Planetary Science Letters, 2007, 261, 578-589.	1.8	302
5	The role of landslides in mountain range evolution. Geomorphology, 2010, 120, 77-90.	1.1	285
6	Geomorphometric characteristics of New Zealand landslide dams. Engineering Geology, 2004, 73, 13-35.	2.9	199
7	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
8	Tibetan plateau river incision inhibited by glacial stabilization of the Tsangpo gorge. Nature, 2008, 455, 786-789.	13.7	196
9	Ice, moraine, and landslide dams in mountainous terrain. Quaternary Science Reviews, 2007, 26, 3406-3422.	1.4	178
10	Sediment generation and delivery from large historic landslides in the Southern Alps, New Zealand. Geomorphology, 2004, 61, 189-207.	1.1	176
11	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
12	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
13	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
14	Unchanged frequency of moraine-dammed glacial lake outburst floods in the Himalaya. Nature Climate Change, 2019, 9, 379-383.	8.1	146
15	Rock-slope failure and the river long profile. Geology, 2006, 34, 45.	2.0	139
16	Earth's portfolio of extreme sediment transport events. Earth-Science Reviews, 2012, 112, 115-125.	4.0	136
17	Geomorphic imprint of landslides on alpine river systems, southwest New Zealand. Earth Surface Processes and Landforms, 2005, 30, 783-800.	1.2	127
18	Natural hazards, extreme events, and mountain topography. Quaternary Science Reviews, 2009, 28, 977-990.	1.4	121

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19	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
20	Distribution of landslides in southwest New Zealand. Landslides, 2005, 2, 43-51.	2.7	108
21	Landslide prediction from machine learning. Geology Today, 2014, 30, 26-33.	0.3	102
22	Giant rockslides from the inside. Earth and Planetary Science Letters, 2014, 389, 62-73.	1.8	100
23	Geomorphic hazard assessment of landslide dams in South Westland, New Zealand: fundamental problems and approaches. Geomorphology, 2005, 66, 167-188.	1.1	98
24	Uncertainty in the Himalayan energyâ€“water nexus: estimating regional exposure to glacial lake outburst floods. Environmental Research Letters, 2016, 11, 074005.	2.2	98
25	Landslide-induced river channel avulsions in mountain catchments of southwest New Zealand. Geomorphology, 2004, 63, 57-80.	1.1	97
26	Extremely large rockslides and rock avalanches in the Tien Shan Mountains, Kyrgyzstan. Landslides, 2006, 3, 125-136.	2.7	95
27	Millennial lag times in the Himalayan sediment routing system. Earth and Planetary Science Letters, 2013, 382, 38-46.	1.8	94
28	Complex rupture mechanism and topography control symmetry of mass-wasting pattern, 2010 Haiti earthquake. Geomorphology, 2013, 184, 127-138.	1.1	93
29	Why so few? Landslides triggered by the 2002 Denali earthquake, Alaska. Quaternary Science Reviews, 2014, 95, 80-94.	1.4	85
30	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
31	Bayesian network learning for natural hazard analyses. Natural Hazards and Earth System Sciences, 2014, 14, 2605-2626.	1.5	81
32	Regional changes in streamflow after a megathrust earthquake. Earth and Planetary Science Letters, 2017, 458, 418-428.	1.8	75
33	Effects of large deep-seated landslides on hillslope morphology, western Southern Alps, New Zealand. Journal of Geophysical Research, 2006, 111, .	3.3	74
34	Persistent alluvial fanhead trenching resulting from large, infrequent sediment inputs. Earth Surface Processes and Landforms, 2007, 32, 725-742.	1.2	74
35	Detecting Himalayan glacial lake outburst floods from Landsat time series. Remote Sensing of Environment, 2018, 207, 84-97.	4.6	72
36	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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37	Without power? Landslide inventories in the face of climate change. Earth Surface Processes and Landforms, 2012, 37, 92-99.	1.2	67
38	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
39	Rock-type control on erosion-induced uplift, eastern Swiss Alps. Earth and Planetary Science Letters, 2009, 278, 278-285.	1.8	66
40	Rock type leaves topographic signature in landslideâ€dominated mountain ranges. Geophysical Research Letters, 2008, 35, .	1.5	62
41	Rainfall conditions, typhoon frequency, and contemporary landslide erosion in Japan. Geology, 2014, 42, 999-1002.	2.0	62
42	Repeated catastrophic valley infill following medieval earthquakes in the Nepal Himalaya. Science, 2016, 351, 147-150.	6.0	62
43	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
44	Late Quaternary valley infill and dissection in the Indus River, western Tibetan Plateau margin. Quaternary Science Reviews, 2014, 94, 102-119.	1.4	58
45	Preservation of inner gorges through repeated Alpine glaciations. Nature Geoscience, 2011, 4, 62-67.	5.4	55
46	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
47	Large landslides lie low: Excess topography in the Himalaya-Karakoram ranges. Geology, 2015, 43, 523-526.	2.0	50
48	Increased landslide activity on forested hillslopes following two recent volcanic eruptions in Chile. Nature Geoscience, 2019, 12, 284-289.	5.4	47
49	Regional relief characteristics and denudation pattern of the western Southern Alps, New Zealand. Geomorphology, 2005, 71, 402-423.	1.1	44
50	Rare flash floods and debris flows in southern Germany. Science of the Total Environment, 2018, 626, 941-952.	3.9	44
51	How robust are landslide susceptibility estimates?. Landslides, 2021, 18, 681-695.	2.7	39
52	Protracted river response to medieval earthquakes. Earth Surface Processes and Landforms, 2019, 44, 331-341.	1.2	37
53	Quantifying postglacial sediment storage at the mountain-belt scale. Geology, 2009, 37, 1079-1082.	2.0	36
54	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

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55	A random kinetic energy model for rock avalanches: Eight case studies. Journal of Geophysical Research, 2010, 115, .	3.3	32
56	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
57	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
58	Cascading Hazards in the Aftermath of Australia's 2019/2020 Black Summer Wildfires. Earth's Future, 2021, 9, e2020EF001884.	2.4	32
59	Glacial advances constrained by ¹⁰Be exposure dating of bedrock landslides, Kyrgyz Tien Shan. Quaternary Research, 2011, 76, 295-304.	1.0	31
60	Topographic and Seismic Constraints on the Vulnerability of Himalayan Hydropower. Geophysical Research Letters, 2018, 45, 8985-8992.	1.5	31
61	Complex networks for tracking extreme rainfall during typhoons. Chaos, 2018, 28, 075301.	1.0	28
62	Catastrophic valley fills record large Himalayan earthquakes, Pokhara, Nepal. Quaternary Science Reviews, 2017, 177, 88-103.	1.4	26
63	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
64	Linking landslides, hillslope erosion, and landscape evolution. Earth Surface Processes and Landforms, 2009, 34, 1315-1317.	1.2	24
65	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
66	Trends, Breaks, and Biases in the Frequency of Reported Glacier Lake Outburst Floods. Earth's Future, 2022, 10, .	2.4	24
67	Limits to lichenometry. Quaternary Science Reviews, 2015, 129, 229-238.	1.4	23
68	On predicting debris flows in arid mountain belts. Global and Planetary Change, 2015, 126, 1-13.	1.6	23
69	Immersive 3D geovisualization in higher education. Journal of Geography in Higher Education, 2015, 39, 437-449.	1.4	22
70	Giant landslides and highstands of the Caspian Sea. Geology, 2016, 44, 939-942.	2.0	22
71	Rockâ€glacier dams in High Asia. Earth Surface Processes and Landforms, 2019, 44, 808-824.	1.2	22
72	Roads at risk: traffic detours from debris flows in southern Norway. Natural Hazards and Earth System Sciences, 2015, 15, 985-995.	1.5	21

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73	Permafrost activity and atmospheric warming in the Argentinian Andes. Geomorphology, 2018, 323, 13-24.	1.1	21
74	Rock type, precipitation, and the steepness of Himalayan threshold hillslopes. Geological Society Special Publication, 2011, 353, 235-249.	0.8	19
75	Soil erosion and organic carbon export by wet snow avalanches. Cryosphere, 2014, 8, 651-658.	1.5	19
76	Estimating the topographic predictability of debris flows. Geomorphology, 2014, 207, 114-125.	1.1	19
77	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
78	Japan's sediment flux to the Pacific Ocean revisited. Earth-Science Reviews, 2014, 135, 1-16.	4.0	18
79	Giant landslides in the foreland of the Patagonian Ice Sheet. Quaternary Science Reviews, 2018, 194, 39-54.	1.4	14
80	Pyroclastic Eruption Boosts Organic Carbon Fluxes Into Patagonian Fjords. Global Biogeochemical Cycles, 2017, 31, 1626-1638.	1.9	13
81	13.17 Landslide Hazards and Climate Change in High Mountains. , 2013, , 288-301.		12
82	Seasonal logging, process response, and geomorphic work. Earth Surface Dynamics, 2014, 2, 117-125.	1.0	12
83	Recycling of Pleistocene valley fills dominates 135Âka of sediment flux, upper Indus River. Quaternary Science Reviews, 2016, 149, 122-134.	1.4	12
84	Late Pleistocene outburst floods from Issyk Kul, Kyrgyzstan?. Earth Surface Processes and Landforms, 2017, 42, 1535-1548.	1.2	11
85	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
86	Object-Based Detection of Lakes Prone to Seasonal Ice Cover on the Tibetan Plateau. Remote Sensing, 2017, 9, 339.	1.8	10
87	Bayesian geomorphology. Earth Surface Processes and Landforms, 2021, 46, 151-172.	1.2	10
88	Controls of outbursts of moraine-dammed lakes in the greater Himalayan region. Cryosphere, 2021, 15, 4145-4163.	1.5	10
89	Moraines and marls: Giant landslides of the Lago PueyrredÃ³n valley in Patagonia, Argentina. Quaternary Science Reviews, 2020, 248, 106598.	1.4	9
90	7.18 Long-Runout Landslides. , 2013, , 183-199.		7

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91	Ice and Snow as Land-Forming Agents. , 2015, , 167-199.		7
92	9.15 Landslides in the Fluvial System. , 2013, , 244-259.		6
93	A high-resolution sedimentary archive from landslide-dammed Lake Mengda, north-eastern Tibetan Plateau. Journal of Paleolimnology, 2014, 51, 303-312.	0.8	6
94	Late quaternary fluvial incision and aggradation in the Lesser Himalaya, India. Quaternary Science Reviews, 2018, 197, 112-128.	1.4	6
95	A New Centennial Seaâ€Level Record for Antalya, Eastern Mediterranean. Journal of Geophysical Research: Oceans, 2018, 123, 4503-4517.	1.0	6
96	Postglacial Patagonian mass movement: From rotational slides and spreads to earthflows. Geomorphology, 2020, 367, 107316.	1.1	6
97	Detecting Potential Climate Signals in Large Slope Failures in Cold Mountain Regions. , 2013, , 361-367.		6
98	Deep learning reveals one of Earth's largest landslide terrain in Patagonia. Earth and Planetary Science Letters, 2022, 593, 117642.	1.8	6
99	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
100	Predicting Patagonian Landslides: Roles of Forest Cover and Wind Speed. Geophysical Research Letters, 2021, 48, e2021GL095224.	1.5	5
101	Landslides in the Earth system. , 0, , 10-23.		3
102	Quantifying rates and processes of landscape evolution. Earth Surface Processes and Landforms, 2012, 37, 249-251.	1.2	3
103	Multiple Landslide-Damming Episodes. , 2015, , 241-261.		3
104	Rockslide and Rock Avalanche Dams in the Southern Alps, New Zealand. Lecture Notes in Earth Sciences, 2011, , 123-145.	0.5	3
105	Catastrophic mass wasting in high mountains. , 2015, , 127-146.		2
106	Landslide Hazards and Climate Change in High Mountains. , 2022, , 798-814.		2
107	Ice and snow as land-forming agents. , 2021, , 165-198.		2
108	Bayesian Detection of Streamflow Response to Earthquakes. Water Resources Research, 2021, 57, e2020WR028874.	1.7	1

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109	Investigating Rock-Slope Failures in the Tien Shan: State-of-the-Art and Perspectives of International Cooperation (M111). , 2005, , 109-112.		1
110	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
111	Tropical Mountain Rivers. , 2021, , .		0
112	Landslides in the Fluvial System. , 2021, , .		0
113	Multiple landslide-damming episodes. , 2022, , 249-268.		0