

# Rolf Aalto

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

2,917  
citations

304743

22  
h-index

377865

34  
g-index

34  
all docs

34  
docs citations

34  
times ranked

4153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Riverine coupling of biogeochemical cycles between land, oceans, and atmosphere. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 53-60.	4.0	927
2	Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation. <i>Nature</i> , 2003, 425, 493-497.	27.8	275
3	Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity. <i>Nature</i> , 2016, 539, 276-279.	27.8	187
4	The geomorphology of the Anthropocene: emergence, status and implications. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 71-90.	2.5	183
5	Geomorphic Controls on Andean Denudation Rates. <i>Journal of Geology</i> , 2006, 114, 85-99.	1.4	179
6	River bank instability from unsustainable sand mining in the lower Mekong River. <i>Nature Sustainability</i> , 2020, 3, 217-225.	23.7	153
7	Spatial and temporal dynamics of sediment accumulation and exchange along Strickland River floodplains (Papua New Guinea) over decadal to centennial timescales. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	97
8	The Anthropocene: is there a geomorphological case?. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 431-434.	2.5	78
9	Chute channel dynamics in large, sand-bed meandering rivers. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 315-331.	2.5	76
10	Enduring legacy of a toxic fan via episodic redistribution of California gold mining debris. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18436-18441.	7.1	72
11	Biogeochemical characterization of carbon sources in the Strickland and Fly rivers, Papua New Guinea. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	68
12	Interaction between meander dynamics and floodplain heterogeneity in a large tropical sand-bed river: the Rio Beni, Bolivian Amazon. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 2026-2040.	2.5	68
13	Channel and Floodplain Change Analysis over a 100-Year Period: Lower Yuba River, California. <i>Remote Sensing</i> , 2010, 2, 1797-1825.	4.0	56
14	<sup>210</sup> Pb geochronology of flood events in large tropical river systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2040-2074.	3.4	50
15	Mediative adjustment of river dynamics: The role of chute channels in tropical sand-bed meandering rivers. <i>Sedimentary Geology</i> , 2014, 301, 93-106.	2.1	49
16	Characteristic length scales and time-averaged transport velocities of suspended sediment in the mid-Atlantic Region, USA. <i>Water Resources Research</i> , 2014, 50, 790-805.	4.2	47
17	Sediment load and floodplain deposition rates: Comparison of the Fly and Strickland rivers, Papua New Guinea. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	45
18	Status of the Lower Sacramento Valley Flood-Control System within the Context of Its Natural Geomorphic Setting. <i>Natural Hazards Review</i> , 2008, 9, 104-115.	1.5	44

#	ARTICLE	IF	CITATIONS
19	Short Communication: Humans and the missing C-sink: erosion and burial of soil carbon through time. <i>Earth Surface Dynamics</i> , 2013, 1, 45-52.	2.4	43
20	The influence of flow discharge variations on the morphodynamics of a difffluenceâ€“confluence unit on a large river. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 349-362.	2.5	41
21	Extreme floodâ€“driven fluvial bank erosion and sediment loads: direct process measurements using integrated Mobile Laser Scanning (MLS) and hydroâ€“acoustic techniques. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 334-346.	2.5	39
22	Floodplain development in an engineered setting. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 291-304.	2.5	23
23	Tsunami(?) Sculpturing of the Pebble Beach Waveâ€“Cut Platform, Crescent City Area, California. <i>Journal of Geology</i> , 1999, 107, 607-622.	1.4	21
24	Multiscale structure of meanders. <i>Geophysical Research Letters</i> , 2016, 43, 3288-3297.	4.0	20
25	Effects of gradient, distance, curvature and aspect on steep burned and unburned hillslope soil erosion and deposition. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1033-1048.	2.5	19
26	Direct Channel Precipitation and Storm Characteristics Influence Shortâ€“Term Fallout Radionuclide Assessment of Sediment Source. <i>Water Resources Research</i> , 2018, 54, 4579-4594.	4.2	16
27	Application of <sup>210</sup> Pb <sub>ex</sub> inventories to measure net hillslope erosion at burned sites. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 133-145.	2.5	7
28	Beryllium-7 wet deposition variation with storm height, synoptic classification, and tree canopy state in the mid-Atlantic USA. <i>Hydrological Processes</i> , 2016, 30, 75-89.	2.6	7
29	Miocene semidiurnal tidal rhythmites in Madre de Dios, Peru: Comment: COMMENT. <i>Geology</i> , 2006, 34, e98-e99.	4.4	6
30	Ecosystem engineering by hummockâ€“building earthworms in seasonal wetlands of eastern South Africa: Insights into the mechanics of biomorphodynamic feedbacks in wetland ecosystems. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 354-366.	2.5	6
31	Soil carbon redistribution and organo-mineral associations after lateral soil movement and mixing in a first-order forest watershed. <i>Geoderma</i> , 2018, 319, 142-155.	5.1	5
32	Drainage and erosion of Cambodiaâ€™s great lake in the middle-late Holocene: The combined role of climatic drying, base-level fall and river capture. <i>Quaternary Science Reviews</i> , 2020, 236, 106265.	3.0	5
33	Characterization and source determination of stream suspended particulate material in White Clay Creek, USA. <i>Applied Geochemistry</i> , 2011, 26, S354-S356.	3.0	3
34	Topographic variation in soil erosion and accumulation determined with meteoric <sup>10</sup> Be. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 98-111.	2.5	2