

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	River bank instability from unsustainable sand mining in the lower Mekong River. <i>Nature Sustainability</i> , 2020, 3, 217-225.	23.7	153
2	Drainage and erosion of Cambodia'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
3	Topographic variation in soil erosion and accumulation determined with meteoric ¹⁰ Be. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 98-111.	2.5	2
4	Ecosystem engineering by hummock-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
5	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
6	The influence of flow discharge variations on the morphodynamics of a diffluence-confluence unit on a large river. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 349-362.	2.5	41
7	Direct Channel Precipitation and Storm Characteristics Influence Short-Term Fallout Radionuclide Assessment of Sediment Source. <i>Water Resources Research</i> , 2018, 54, 4579-4594.	4.2	16
8	The geomorphology of the Anthropocene: emergence, status and implications. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 71-90.	2.5	183
9	Extreme flood-driven fluvial bank erosion and sediment loads: direct process measurements using integrated Mobile Laser Scanning (MLS) and hydroacoustic techniques. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 334-346.	2.5	39
10	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
11	Multiscale structure of meanders. <i>Geophysical Research Letters</i> , 2016, 43, 3288-3297.	4.0	20
12	Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity. <i>Nature</i> , 2016, 539, 276-279.	27.8	187
13	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
14	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
15	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
16	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
17	Application of ²¹⁰ Pb _{ex} inventories to measure net hillslope erosion at burned sites. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 133-145.	2.5	7
18	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

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19	The Anthropocene: is there a geomorphological case?. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 431-434.	2.5	78
20	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
21	^{>210} 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
22	Chute channel dynamics in large, sand-bed meandering rivers. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 315-331.	2.5	76
23	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
24	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
25	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
26	Floodplain development in an engineered setting. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 291-304.	2.5	23
27	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
28	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
29	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
30	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
31	Miocene semidiurnal tidal rhythmites in Madre de Dios, Peru: Comment: COMMENT. <i>Geology</i> , 2006, 34, e98-e99.	4.4	6
32	Geomorphic Controls on Andean Denudation Rates. <i>Journal of Geology</i> , 2006, 114, 85-99.	1.4	179
33	Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation. <i>Nature</i> , 2003, 425, 493-497.	27.8	275
34	Tsunami(?) Sculpturing of the Pebble Beach Wave-Cut Platform, Crescent City Area, California. <i>Journal of Geology</i> , 1999, 107, 607-622.	1.4	21