

Amaury Frankl

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

3,007
citations

185998

28
h-index

189595

50
g-index

109
all docs

109
docs citations

109
times ranked

2520
citing authors

#	ARTICLE	IF	CITATIONS
1	Online digital archive of aerial photographs (1935–1941) of Ethiopia. <i>Geoscience Data Journal</i> , 2022, 9, 3-36.	1.8	2
2	Tracing hotspots of soil erosion in high mountain environments: how forensic science based on plant eDNA can lead the way. An opinion. <i>Plant and Soil</i> , 2022, 476, 729-742.	1.8	10
3	Timing, volume and precursory indicators of rock and cliff fall on a permafrost mountain ridge (Mattertal, Switzerland). <i>Earth Surface Processes and Landforms</i> , 2022, 47, 1532-1549.	1.2	9
4	Benefit Segmentation of Tourists to Geosites and Its Implications for Sustainable Development of Geotourism in the Southern Lake Tana Region, Ethiopia. <i>Sustainability</i> , 2022, 14, 3411.	1.6	7
5	Improving the design and implementation of sediment fingerprinting studies: summary and outcomes of the TRACING 2021 Scientific School. <i>Journal of Soils and Sediments</i> , 2022, 22, 1648-1661.	1.5	13
6	Gully prevention and control: Techniques, failures and effectiveness. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 220-238.	1.2	39
7	Curve number calibration for measuring impacts of land management in sub-humid Ethiopia. <i>Journal of Hydrology: Regional Studies</i> , 2021, 35, 100819.	1.0	4
8	Modelling spatial relationships between land cover change and its drivers in the Afroalpine belt of Mount Guna (Ethiopia). <i>Land Degradation and Development</i> , 2021, 32, 3946-3961.	1.8	8
9	Report on the effectiveness of vegetative barriers to regulate simulated fluxes of runoff and sediment in open agricultural landscapes (Flanders, Belgium). <i>Land Degradation and Development</i> , 2021, 32, 4445-4449.	1.8	1
10	Simulation of site-scale water fluxes in desert and natural oasis ecosystems of the arid region in Northwest China. <i>Hydrological Processes</i> , 2021, 35, e14444.	1.1	3
11	Dynamics of ephemeral streams at the foot of degraded catchments in northern Ethiopia. <i>Land Degradation and Development</i> , 2020, 31, 591-606.	1.8	4
12	Biodiversity conservation in the sacred groves of north-west Ethiopia: diversity and community structure of woody species. <i>Global Ecology and Conservation</i> , 2020, 24, e01377.	1.0	7
13	Talus slope geomorphology investigated at multiple time scales from high-resolution topographic surveys and historical aerial photographs (Sanetsch Pass, Switzerland). <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3653-3669.	1.2	22
14	Spatial distribution and livelihood effects of debris cones at the western Afar Rift Valley margin, northern Ethiopia. <i>Norsk Geografisk Tidsskrift</i> , 2020, 74, 88-104.	0.3	0
15	Consolidated sediment budget of Lake Tana, Ethiopia (2012–2016). <i>Geomorphology</i> , 2020, 371, 107434.	1.1	21
16	Water balance components of the potential agricultural grabens along the Rift Valley in northern Ethiopia. <i>Journal of Hydrology: Regional Studies</i> , 2019, 24, 100616.	1.0	8
17	Hydrological Context of Water Scarcity and Storage on the Mountain Ridges in Dogu'a Tembien. <i>GeoGuide</i> , 2019, , 197-213.	0.2	2
18	Gully Erosion and Control in the Tembien Highlands. <i>GeoGuide</i> , 2019, , 333-343.	0.2	2

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19	Historical Maps, Terrestrial and Aerial Photographs. GeoGuide, 2019, , 461-476.	0.2	2
20	Bedload transport measurements in the Gilgel Abay River, Lake Tana Basin, Ethiopia. Journal of Hydrology, 2019, 577, 123968.	2.3	8
21	Can woody vegetation in valley bottoms protect from gully erosion? Insights using remote sensing data (1938â€”2016) from subhumid NW Ethiopia. Regional Environmental Change, 2019, 19, 2055-2068.	1.4	18
22	Understanding spatial patterns of soils for sustainable agriculture in northern Ethiopiaâ€™s tropical mountains. PLoS ONE, 2019, 14, e0224041.	1.1	19
23	Sediment yield at southwest Ethiopia's forest frontier. Land Degradation and Development, 2019, 30, 695-705.	1.8	12
24	Identifying climate change impacts on water resources in Xinjiang, China. Science of the Total Environment, 2019, 676, 613-626.	3.9	67
25	Identifying erosion hotspots in Lake Tana Basin from a multisite Soil and Water Assessment Tool validation: Opportunity for land managers. Land Degradation and Development, 2019, 30, 1449-1467.	1.8	47
26	Spatial and temporal patterns of water salinity in the marginal grabens of Ethiopia's Danakil Depression. Land Degradation and Development, 2019, 30, 1407.	1.8	4
27	Spatiotemporal characteristics of future changes in precipitation and temperature in Central Asia. International Journal of Climatology, 2019, 39, 1571-1588.	1.5	41
28	The reproducibility of SfM algorithms to produce detailed Digital Surface Models: the example of PhotoScan applied to a high-alpine rock glacier. Remote Sensing Letters, 2019, 10, 11-20.	0.6	30
29	Land-use/cover changes in relation to stream dynamics in a marginal graben along the northern Ethiopian Rift Valley. Physical Geography, 2019, 40, 71-90.	0.6	9
30	Gully and soil and water conservation structure densities in semiâ€”arid northern Ethiopia over the last 80â€”years. Earth Surface Processes and Landforms, 2018, 43, 1848-1859.	1.2	19
31	Water balance variability in the confined Abaâ€™ala limestone graben at the western margin of the Danakil depression, northern Ethiopia. Hydrological Sciences Journal, 2018, 63, 957-977.	1.2	10
32	Defining spatiotemporal characteristics of climate change trends from downscaled GCMs ensembles: how climate change reacts in Xinjiang, China. International Journal of Climatology, 2018, 38, 2538-2553.	1.5	41
33	Agro-ecological implications of forest and agroforestry systems conversion to cereal-based farming systems in the White Nile Basin, Ethiopia. Agroecology and Sustainable Food Systems, 2018, 42, 149-168.	1.0	10
34	Revisiting lake sediment budgets: How the calculation of lake lifetime is strongly data and method dependent. Earth Surface Processes and Landforms, 2018, 43, 593-607.	1.2	37
35	The success of recent land management efforts to reduce soil erosion in northern France. Geomorphology, 2018, 303, 84-93.	1.1	25
36	Inclusion of Modified Snow Melting and Flood Processes in the SWAT Model. Water (Switzerland), 2018, 10, 1715.	1.2	29

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37	Changes in land use/cover mapped over 80 years in the Highlands of Northern Ethiopia. <i>Journal of Chinese Geography</i> , 2018, 28, 1538-1563.	1.5	18
38	Comparing Bias Correction Methods Used in Downscaling Precipitation and Temperature from Regional Climate Models: A Case Study from the Kaidu River Basin in Western China. <i>Water (Switzerland)</i> , 2018, 10, 1046.	1.2	111
39	Forest cover loss and recovery in an East African remnant forest area: Understanding its context and drivers for conservation and sustainable ecosystem service provision. <i>Applied Geography</i> , 2018, 98, 133-142.	1.7	18
40	Persistence and changes in the peripheral Beles basin of Ethiopia. <i>Regional Environmental Change</i> , 2018, 18, 2089-2104.	1.4	16
41	Regreening of The Northern Ethiopian Mountains: Effects on Flooding and on Water Balance. <i>Afrika Focus</i> , 2018, 31, 129-147.	0.1	3
42	Excess River Sedimentation at Bridges in the Raya Graben (Northern Ethiopia). <i>Land Degradation and Development</i> , 2017, 28, 946-958.	1.8	16
43	Proportional coefficient method applied to TRMM rainfall data: case study of hydrological simulations of the Hotan River Basin (China). <i>Journal of Water and Climate Change</i> , 2017, 8, 627-640.	1.2	7
44	Transition from Forest-based to Cereal-based Agricultural Systems: A Review of the Drivers of Land use Change and Degradation in Southwest Ethiopia. <i>Land Degradation and Development</i> , 2017, 28, 431-449.	1.8	65
45	Effects of check dams on runoff characteristics along gully reaches, the case of Northern Ethiopia. <i>Journal of Hydrology</i> , 2017, 545, 299-309.	2.3	75
46	Geographical determinants of inorganic fertiliser sales and of resale prices in north Ethiopia. <i>Agriculture, Ecosystems and Environment</i> , 2017, 249, 256-268.	2.5	17
47	Natural resource opportunities and challenges for rural development in marginal grabens – The state of the art with implications for the Rift Valley system in Ethiopia. <i>Journal of Arid Environments</i> , 2017, 147, 1-16.	1.2	25
48	Impact of deforestation on soil fertility, soil carbon and nitrogen stocks: the case of the Gacheb catchment in the White Nile Basin, Ethiopia.. <i>Agriculture, Ecosystems and Environment</i> , 2017, 247, 273-282.	2.5	78
49	Land cover dynamics in the Simien Mountains (Ethiopia), half a century after establishment of the National Park. <i>Regional Environmental Change</i> , 2017, 17, 777-787.	1.4	16
50	Boulder-Faced Log Dams as an Alternative for Gabion Check Dams in First-Order Ephemeral Streams with Coarse Bed Load in Ethiopia. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	0.7	14
51	The Resilience of Ethiopian Church Forests: Interpreting Aerial Photographs, 1938–2015. <i>Land Degradation and Development</i> , 2017, 28, 450-458.	1.8	35
52	Multi-Model Ensemble Approaches to Assessment of Effects of Local Climate Change on Water Resources of the Hotan River Basin in Xinjiang, China. <i>Water (Switzerland)</i> , 2017, 9, 584.	1.2	25
53	Late Quaternary changes in climate and land cover in the Northern Horn of Africa and adjacent areas. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 482, 103-113.	1.0	4
54	Sediment in Alluvial and Lacustrine Debris Fans as an Indicator for Land Degradation Around Lake Ashenge (Ethiopia). <i>Land Degradation and Development</i> , 2016, 27, 258-269.	1.8	16

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55	Integrated Solutions for Combating Gully Erosion in Areas Prone to Soil Piping: Innovations from the Drylands of Northern Ethiopia. <i>Land Degradation and Development</i> , 2016, 27, 1797-1804.	1.8	72
56	The regional geomorphology of Montenegro mapped using Land Surface Parameters. <i>Zeitschrift für Geomorphologie</i> , 2016, 60, 21-34.	0.3	12
57	Catchment Rehabilitation and Hydrogeomorphic Characteristics of Mountain Streams in the Western Rift Valley Escarpment of Northern Ethiopia. <i>Land Degradation and Development</i> , 2016, 27, 26-34.	1.8	27
58	The use of SfM-photogrammetry to quantify and understand gully degradation at the temporal scale of rainfall events: an example from the Ethiopian drylands. <i>Physical Geography</i> , 2016, 37, 430-451.	0.6	11
59	Land Use and Cover Dynamics Since 1964 in the Afro-Alpine Vegetation Belt: Lib Amba Mountain in North Ethiopia. <i>Land Degradation and Development</i> , 2016, 27, 641-653.	1.8	21
60	How fast do gully headcuts retreat?. <i>Earth-Science Reviews</i> , 2016, 154, 336-355.	4.0	229
61	Recovery of the aerial photographs of Ethiopia in the 1930s. <i>Journal of Cultural Heritage</i> , 2016, 17, 170-178.	1.5	18
62	Biophysical Controlling Factors in Upper Catchments and Braided Rivers in Drylands: The Case of a Marginal Graben of the Ethiopian Rift Valley. <i>Land Degradation and Development</i> , 2015, 26, 748-758.	1.8	23
63	Gully cut-and-fill cycles as related to agro-management: a historical curve number simulation in the Tigray Highlands. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 796-808.	1.2	11
64	Land Management in the Northern Ethiopian Highlands: Local and Global Perspectives; Past, Present and Future. <i>Land Degradation and Development</i> , 2015, 26, 759-764.	1.8	70
65	Land Degradation in the Ethiopian Highlands. <i>World Geomorphological Landscapes</i> , 2015, , 369-385.	0.1	15
66	Glacial and periglacial geomorphology and its paleoclimatological significance in three North Ethiopian Mountains, including a detailed geomorphological map. <i>Geomorphology</i> , 2015, 246, 156-167.	1.1	8
67	North Ethiopian Afro-Alpine Tree Line Dynamics and Forest Cover Change Since the Early 20th Century. <i>Land Degradation and Development</i> , 2015, 26, 654-664.	1.8	39
68	The Late-Holocene geomorphic history of the Ethiopian Highlands: Supportive evidence from May Tsimble. <i>Catena</i> , 2015, 135, 290-303.	2.2	9
69	Detailed recording of gully morphology in 3D through image-based modelling. <i>Catena</i> , 2015, 127, 92-101.	2.2	108
70	Manual mapping of drumlins in synthetic landscapes to assess operator effectiveness. <i>Journal of Maps</i> , 2015, 11, 719-729.	1.0	29
71	Using image-based modelling (SfM-MVS) to produce a 1935 ortho-mosaic of the Ethiopian highlands. <i>International Journal of Digital Earth</i> , 2015, 8, 421-430.	1.6	18
72	Environmental Conservation for Food Production and Sustainable Livelihood in Tropical Africa. <i>Land Degradation and Development</i> , 2015, 26, 629-631.	1.8	20

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73	Sediment flux dynamics as fingerprints of catchment rehabilitation: The case of western Rift Valley escarpment of northern Ethiopia. <i>Geomorphology</i> , 2015, 250, 220-235.	1.1	4
74	Quaternary glacial and periglacial processes in the Ethiopian Highlands in relation to the current afro-alpine vegetation. <i>Zeitschrift für Geomorphologie</i> , 2015, 59, 37-57.	0.3	6
75	Determinants of peak discharge in steep mountain catchments – Case of the Rift Valley escarpment of Northern Ethiopia. <i>Journal of Hydrology</i> , 2015, 529, 1725-1739.	2.3	16
76	Nonlinear vegetation cover changes in the North Ethiopian Highlands: Evidence from the Lake Ashenge closed basin. <i>Science of the Total Environment</i> , 2015, 536, 996-1006.	3.9	18
77	Tree line dynamics in the tropical African highlands – identifying drivers and dynamics. <i>Journal of Vegetation Science</i> , 2015, 26, 9-20.	1.1	31
78	Droughts related to quasi-global oscillations: a diagnostic teleconnection analysis in North Ethiopia. <i>International Journal of Climatology</i> , 2015, 35, 1534-1542.	1.5	24
79	Geomorphology of the Durmitor Mountains and surrounding plateau Jezerska Povra (Montenegro). <i>Journal of Maps</i> , 2014, 10, 600-611.	1.0	7
80	Historical landscape photographs for calibration of Landsat land use/cover in the northern Ethiopian highlands. <i>Land Degradation and Development</i> , 2014, 25, 319-335.	1.8	77
81	TWENTIETH CENTURY LAND RESILIENCE IN MONTENEGRO AND CONSEQUENT HYDROLOGICAL RESPONSE. <i>Land Degradation and Development</i> , 2014, 25, 336-349.	1.8	18
82	Environmental conditions and human drivers for changes to north Ethiopian mountain landscapes over 145 years. <i>Science of the Total Environment</i> , 2014, 485-486, 164-179.	3.9	81
83	Assessing the spatiotemporal dynamics of vegetation cover as an indicator of desertification in Egypt using multi-temporal MODIS satellite images. <i>Arabian Journal of Geosciences</i> , 2014, 7, 4461-4475.	0.6	22
84	Spatio-temporal sedimentation patterns in beaver ponds along the Cheval river, Ardennes, Belgium. <i>Hydrological Processes</i> , 2014, 28, 1602-1615.	1.1	28
85	Factors controlling the morphology and volume (V) – length (L) relations of permanent gullies in the northern Ethiopian Highlands. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1672-1684.	1.2	66
86	Assessing spatio-temporal rainfall variability in a tropical mountain area (Ethiopia) using NOAA's rainfall estimates. <i>International Journal of Remote Sensing</i> , 2013, 34, 8319-8335.	1.3	21
87	Land use and cover dynamics in Africa since the nineteenth century: warped terrestrial photographs of North Ethiopia. <i>Regional Environmental Change</i> , 2013, 13, 717-737.	1.4	40
88	The effect of rainfall on spatio-temporal variability in cropping systems and duration of crop cover in the Northern Ethiopian Highlands. <i>Soil Use and Management</i> , 2013, 29, 374-383.	2.6	25
89	Quantifying long-term changes in gully networks and volumes in dryland environments: The case of Northern Ethiopia. <i>Geomorphology</i> , 2013, 201, 254-263.	1.1	92
90	Transferring Google Earth observations to GIS-software: example from gully erosion study. <i>International Journal of Digital Earth</i> , 2013, 6, 196-201.	1.6	40

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91	Geomorphology of the Lake Tana basin, Ethiopia. <i>Journal of Maps</i> , 2013, 9, 431-437.	1.0	69
92	Gully head retreat rates in the semi-arid highlands of Northern Ethiopia. <i>Geomorphology</i> , 2012, 173-174, 185-195.	1.1	135
93	Gully development and its spatio-temporal variability since the late 19th century in the northern Ethiopian Highlands. <i>Afrika Focus</i> , 2012, 25, .	0.1	5
94	Linking long-term gully and river channel dynamics to environmental change using repeat photography (Northern Ethiopia). <i>Geomorphology</i> , 2011, 129, 238-251.	1.1	102
95	Digital Photographic Archives for Environmental and Historical Studies: An Example from Ethiopia. <i>Scottish Geographical Journal</i> , 2010, 126, 185-207.	0.4	16
96	Use of Digital Elevation Models to understand and map glacial landforms – The case of the Canigou Massif (Eastern Pyrenees, France). <i>Geomorphology</i> , 2010, 115, 78-89.	1.1	9
97	Desertification? Northern Ethiopia re-photographed after 140 years. <i>Science of the Total Environment</i> , 2009, 407, 2749-2755.	3.9	113
98	Effects of region-wide soil and water conservation in semi-arid areas: the case of northern Ethiopia. <i>Zeitschrift für Geomorphologie</i> , 2008, 52, 291-315.	0.3	49
99	Event-based runoff and sediment yield dynamics and controls in the sub-humid headwaters of the Blue Nile, Ethiopia. <i>Land Degradation and Development</i> , 0, , .	1.8	3