

Frédéric Herman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5859276/publications.pdf>

Version: 2024-02-01

53
papers

2,979
citations

186209

28
h-index

168321

53
g-index

55
all docs

55
docs citations

55
times ranked

3395
citing authors

#	ARTICLE	IF	CITATIONS
1	Solidification depth and crystallization age of the Shaidani Granodiorite: Constraints to the average denudation rate of the Hida Range, central Japan. <i>Island Arc</i> , 2021, 30, e12414.	0.5	3
2	Determining the evolution of an alpine glacier drainage system by solving inverse problems. <i>Journal of Glaciology</i> , 2021, 67, 421-434.	1.1	7
3	Metamorphic transformation rate over large spatial and temporal scales constrained by geophysical data and coupled modelling. <i>Journal of Metamorphic Geology</i> , 2021, 39, 1131-1143.	1.6	9
4	The impact of glaciers on mountain erosion. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 422-435.	12.2	45
5	Orogenic Parallel Migration of Exhumation in the Eastern Aar Massif Revealed by Low-Temperature Thermochronometry. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020799.	1.4	6
6	Postglacial erosion of bedrock surfaces and deglaciation timing: New insights from the Mont Blanc massif (western Alps). <i>Geology</i> , 2020, 48, 139-144.	2.0	25
7	The relationships between tectonics, climate and exhumation in the Central Andes (18°–36°S): Evidence from low-temperature thermochronology. <i>Earth-Science Reviews</i> , 2020, 210, 103276.	4.0	31
8	Inversion of provenance data and sediment load into spatially varying erosion rates. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3879-3901.	1.2	8
9	A glacial buzzsaw effect generated by efficient erosion of temperate glaciers in a steady state model. <i>Earth and Planetary Science Letters</i> , 2020, 543, 116350.	1.8	17
10	Climatic patterns over the European Alps during the LGM derived from inversion of the paleo-ice extent. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116185.	1.8	28
11	Parameterization of river incision models requires accounting for environmental heterogeneity: insights from the tropical Andes. <i>Earth Surface Dynamics</i> , 2020, 8, 447-470.	1.0	27
12	Evaluating post-glacial bedrock erosion and surface exposure duration by coupling in situ optically stimulated luminescence and ^{10}Be dating. <i>Earth Surface Dynamics</i> , 2019, 7, 633-662.	1.0	18
13	Holocene Sedimentary Record and Coastal Evolution in the Makran Subduction Zone (Iran). <i>Quaternary</i> , 2019, 2, 21.	1.0	8
14	Bayesian Inference of Subglacial Channel Structures From Water Pressure and Tracer Transit Time Data: A Numerical Study Based on a Geostatistical Modeling Approach. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1625-1644.	1.0	6
15	Dating and morpho-stratigraphy of uplifted marine terraces in the Makran subduction zone (Iran). <i>Earth Surface Dynamics</i> , 2019, 7, 321-344.	1.0	20
16	A high-resolution image time series of the Gorner Glacier "Swiss Alps" derived from repeated unmanned aerial vehicle surveys. <i>Earth System Science Data</i> , 2019, 11, 579-588.	3.7	32
17	The Response Time of Glacial Erosion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 801-817.	1.0	24
18	Arsenic Speciation in Mekong Delta Sediments Depends on Their Depositional Environment. <i>Environmental Science & Technology</i> , 2018, 52, 3431-3439.	4.6	50

#	ARTICLE	IF	CITATIONS
19	Luminescence Thermochronometry: Investigating the Link between Mountain Erosion, Tectonics and Climate. <i>Elements</i> , 2018, 14, 33-38.	0.5	19
20	Erosion of the Southern Alps of New Zealand during the last deglaciation. <i>Geology</i> , 2018, 46, 975-978.	2.0	9
21	Reconstructing spatially variable mass balances from past ice extents by inverse modeling. <i>Journal of Glaciology</i> , 2018, 64, 957-968.	1.1	5
22	Geological and climatic influences on mountain biodiversity. <i>Nature Geoscience</i> , 2018, 11, 718-725.	5.4	390
23	Glacial Steady State Topography Controlled by the Coupled Influence of Tectonics and Climate. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1344-1362.	1.0	13
24	Constraining provenance, thickness and erosion of nappes using low-temperature thermochronology: the Northland Allochthon, New Zealand. <i>Basin Research</i> , 2017, 29, 81-95.	1.3	3
25	Exhumation mechanisms of the Tauern Window (Eastern Alps) inferred from apatite and zircon fission track thermochronology. <i>Tectonics</i> , 2017, 36, 207-228.	1.3	23
26	Late Cenozoic exhumation model of New Zealand: Impacts from tectonics and climate. <i>Earth-Science Reviews</i> , 2017, 166, 286-298.	4.0	37
27	Exploring IRSL50 fading variability in bedrock feldspars and implications for OSL thermochronometry. <i>Quaternary Geochronology</i> , 2016, 36, 55-66.	0.6	22
28	Time and mode of exhumation of the Cordillera Blanca batholith (Peruvian Andes). <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6235-6249.	1.4	21
29	Plio-Pleistocene increase of erosion rates in mountain belts in response to climate change. <i>Terra Nova</i> , 2016, 28, 2-10.	0.9	68
30	Northward migration of the eastern Himalayan syntaxis revealed by OSL thermochronometry. <i>Science</i> , 2016, 353, 800-804.	6.0	92
31	The Exhumation history of the European Alps inferred from linear inversion of thermochronometric data. <i>Numerische Mathematik</i> , 2016, 316, 505-541.	0.7	51
32	Provenance analysis using Raman spectroscopy of carbonaceous material: A case study in the Southern Alps of New Zealand. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2056-2079.	1.0	22
33	Radiation-induced growth and isothermal decay of infrared-stimulated luminescence from feldspar. <i>Radiation Measurements</i> , 2015, 81, 224-231.	0.7	66
34	Constraints on the role of tectonic and climate on erosion revealed by two time series analysis of marine cores around New Zealand. <i>Earth and Planetary Science Letters</i> , 2015, 410, 174-185.	1.8	26
35	Rapid exhumation in the Western Alps driven by slab detachment and glacial erosion. <i>Geology</i> , 2015, 43, 379-382.	2.0	80
36	Erosion by an Alpine glacier. <i>Science</i> , 2015, 350, 193-195.	6.0	138

#	ARTICLE	IF	CITATIONS
37	Mid-latitude glacial erosion hotspot related to equatorial shifts in southern Westerlies. <i>Geology</i> , 2015, 43, 987-990.	2.0	57
38	A linear inversion method to infer exhumation rates in space and time from thermochronometric data. <i>Earth Surface Dynamics</i> , 2014, 2, 47-65.	1.0	50
39	Controls of initial topography on temporal and spatial patterns of glacial erosion. <i>Geomorphology</i> , 2014, 223, 96-116.	1.1	32
40	Late-Cenozoic relief evolution under evolving climate: A review. <i>Tectonophysics</i> , 2014, 614, 44-65.	0.9	51
41	Worldwide acceleration of mountain erosion under a cooling climate. <i>Nature</i> , 2013, 504, 423-426.	13.7	382
42	Effective closure temperature in leaky and/or saturating thermochronometers. <i>Earth and Planetary Science Letters</i> , 2013, 384, 209-218.	1.8	39
43	Spatial and temporal variations of glacial erosion in the Rhône valley (Swiss Alps): Insights from numerical modeling. <i>Earth and Planetary Science Letters</i> , 2013, 368, 119-131.	1.8	46
44	Bimodal Plio-Quaternary glacial erosion of fjords and low-relief surfaces in Scandinavia. <i>Nature Geoscience</i> , 2012, 5, 635-639.	5.4	81
45	Tectonics, climate, and mountain topography. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	121
46	Late Neogene exhumation and relief development of the Aar and Aiguilles Rouges massifs (Swiss Alps) from low-temperature thermochronology modeling and $^{4}\text{He}/^{3}\text{He}$ thermochronometry. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
47	Hypsometric analysis to identify spatially variable glacial erosion. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
48	Glacial hydrology and erosion patterns: A mechanism for carving glacial valleys. <i>Earth and Planetary Science Letters</i> , 2011, 310, 498-508.	1.8	150
49	Mountain glacier velocity variation during a retreat/advance cycle quantified using sub-pixel analysis of ASTER images. <i>Journal of Glaciology</i> , 2011, 57, 197-207.	1.1	88
50	Inversion of thermochronological age-elevation profiles to extract independent estimates of denudation and relief history II: Application to the French Western Alps. <i>Earth and Planetary Science Letters</i> , 2010, 296, 9-22.	1.8	69
51	Uniform erosion rates and relief amplitude during glacial cycles in the Southern Alps of New Zealand, as revealed from OSL-thermochronology. <i>Earth and Planetary Science Letters</i> , 2010, 297, 183-189.	1.8	120
52	Evolution of the glacial landscape of the Southern Alps of New Zealand: Insights from a glacial erosion model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	77
53	Tectonomorphic scenarios in the Southern Alps of New Zealand. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	56