

Pierre G Valla

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,712
citations

361413

20
h-index

345221

36
g-index

38
all docs

38
docs citations

38
times ranked

1740
citing authors

#	ARTICLE	IF	CITATIONS
1	Worldwide acceleration of mountain erosion under a cooling climate. <i>Nature</i> , 2013, 504, 423-426.	27.8	382
2	Significant increase in relief of the European Alps during mid-Pleistocene glaciations. <i>Nature Geoscience</i> , 2011, 4, 688-692.	12.9	167
3	Frost-cracking control on catchment denudation rates: Insights from in situ produced ^{10}Be concentrations in stream sediments (Ecrins-Pelvoux massif, French Western Alps). <i>Earth and Planetary Science Letters</i> , 2010, 293, 72-83.	4.4	105
4	Present-day uplift of the European Alps: Evaluating mechanisms and models of their relative contributions. <i>Earth-Science Reviews</i> , 2019, 190, 589-604.	9.1	82
5	Bimodal Plio-Quaternary glacial erosion of fjords and low-relief surfaces in Scandinavia. <i>Nature Geoscience</i> , 2012, 5, 635-639.	12.9	81
6	Inversion of thermochronological age-elevation profiles to extract independent estimates of denudation and relief history I: Theory and conceptual model. <i>Earth and Planetary Science Letters</i> , 2010, 295, 511-522.	4.4	72
7	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.	4.4	69
8	Spatial variability of ^{10}Be -derived erosion rates across the southern Peninsular Indian escarpment: A key to landscape evolution across passive margins. <i>Earth and Planetary Science Letters</i> , 2015, 425, 154-167.	4.4	67
9	Radiation-induced growth and isothermal decay of infrared-stimulated luminescence from feldspar. <i>Radiation Measurements</i> , 2015, 81, 224-231.	1.4	66
10	OSL-thermochronometry of feldspar from the KTB borehole, Germany. <i>Earth and Planetary Science Letters</i> , 2015, 423, 232-243.	4.4	59
11	Late-Cenozoic relief evolution under evolving climate: A review. <i>Tectonophysics</i> , 2014, 614, 44-65.	2.2	51
12	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.	4.4	46
13	Trapped-charge thermochronometry and thermometry: A status review. <i>Chemical Geology</i> , 2016, 446, 3-17.	3.3	45
14	Dating bedrock gorge incision in the French Western Alps (Ecrins-Pelvoux massif) using cosmogenic ^{10}Be . <i>Terra Nova</i> , 2010, 22, 18-25.	2.1	42
15	Effective closure temperature in leaky and/or saturating thermochronometers. <i>Earth and Planetary Science Letters</i> , 2013, 384, 209-218.	4.4	39
16	Investigation of OSL surface exposure dating to reconstruct post-LIA glacier fluctuations in the French Alps (Mer de Glace, Mont Blanc massif). <i>Quaternary Geochronology</i> , 2018, 44, 63-74.	1.4	37
17	Tectonic Control on Rapid Late Miocene-Quaternary Incision of the Mekong River Knickzone, Southeast Tibetan Plateau. <i>Tectonics</i> , 2020, 39, e2019TC005782.	2.8	34
18	Late-Pleistocene catchment-wide denudation patterns across the European Alps. <i>Earth-Science Reviews</i> , 2020, 211, 103407.	9.1	32

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19	How reproducible are kinetic parameter constraints of quartz luminescence? An interlaboratory comparison for the 110°C TL peak. <i>Radiation Measurements</i> , 2018, 110, 14-24.	1.4	28
20	Postglacial erosion of bedrock surfaces and deglaciation timing: New insights from the Mont Blanc massif (western Alps). <i>Geology</i> , 2020, 48, 139-144.	4.4	25
21	Low-temperature thermochronology of the Yakutat plate corner, St. Elias Range (Alaska): bridging short-term and long-term deformation. <i>Quaternary Science Reviews</i> , 2015, 113, 23-38.	3.0	23
22	Exploring IRSL50 fading variability in bedrock feldspars and implications for OSL thermochronometry. <i>Quaternary Geochronology</i> , 2016, 36, 55-66.	1.4	22
23	Out-of-phase Late Pleistocene glacial maxima in the Western Alps reflect past changes in North Atlantic atmospheric circulation. <i>Geology</i> , 2021, 49, 1096-1101.	4.4	20
24	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.	2.4	18
25	Glacial overdeepenings in the Swiss Alps and foreland: Spatial distribution and morphometrics. <i>Quaternary Science Reviews</i> , 2020, 243, 106483.	3.0	17
26	Rethinking low-temperature thermochronology data sampling strategies for quantification of denudation and relief histories: A case study in the French western Alps. <i>Earth and Planetary Science Letters</i> , 2011, 307, 309-322.	4.4	15
27	Pedogenic carbonate nodules as soil time archives: Challenges and investigations related to OSL dating. <i>Quaternary Geochronology</i> , 2016, 36, 120-133.	1.4	13
28	Characterising the luminescence behaviour of "infinitely old" quartz samples from Switzerland. <i>Quaternary Geochronology</i> , 2018, 43, 1-11.	1.4	13
29	Deciphering neotectonics from river profile analysis in the karst Jura Mountains (northern Alpine) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 11</i>	1.2	11
30	Post-LGM glacial and geomorphic evolution of the Dora Baltea valley (western Italian Alps). <i>Quaternary Science Reviews</i> , 2022, 282, 107446.	3.0	8
31	Geomorphic response to the Lateglacial "Holocene transition in high Alpine regions (Sanetsch Pass.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 5</i>	2.4	5
32	Deciphering the Cenozoic Exhumation History of the Eastern Pyrenees Along a Crustal-scale Normal Fault Using Low-temperature Thermochronology. <i>Tectonics</i> , 2022, 41, .	2.8	5
33	Modelling alpine glacier geometry and subglacial erosion patterns in response to contrasting climatic forcing. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 1054-1072.	2.5	5
34	Apatite low-temperature chronometry and microstructures across a hydrothermally active fault zone. <i>Chemical Geology</i> , 2022, 588, 120633.	3.3	4
35	Pedo-sedimentary constituents as paleoenvironmental proxies in the Sudano-Sahelian belt during the Late Quaternary (southwestern Chad Basin). <i>Quaternary Science Reviews</i> , 2018, 191, 348-362.	3.0	3
36	Estimating rock cooling rates by using multiple luminescence thermochronometers. <i>Radiation Measurements</i> , 2015, 81, 85-91.	1.4	1

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37	A tribute to Louis (1952): On the theory of glacial erosion in valleys. E&G Quaternary Science Journal, 2021, 70, 209-212.	0.7	0