Rolf Kilian

List of Publications by Year
in descending order

31	2,454	361413 20	434195 31
papers	citations	h-index	g-index

33	33	33	2626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of the subducted slab, mantle wedge and continental crust in the generation of adakites from the Andean Austral Volcanic Zone. Contributions To Mineralogy and Petrology, 1996, 123, 263-281.	3.1	923
2	Holocene changes in the position and intensity of the southern westerly wind belt. Nature Geoscience, 2010, 3, 695-699.	12.9	315
3	A review of Glacial and Holocene paleoclimate records from southernmost Patagonia (49â€“55Â°S). Quaternary Science Reviews, 2012, 53, 1-23.	3.0	179
4	Weather Observations Across the Southern Andes at 53Â°S. Physical Geography, 2003, 24, 97-119.	1.4	157
5	Effect of Peat Decomposition and Mass Loss on Historic Mercury Records in Peat Bogs from Patagonia. Environmental Science & Technology, 2003, 37, 32-39.	10.0	94
6	Elevated mercury accumulation in a peat bog of the Magellanic Moorlands, Chile (53Â°S) â€“ an anthropogenic signal from the Southern Hemisphere. Earth and Planetary Science Letters, 2002, 201, 609-620.	4.4	92
7	â€˜Little Ice Ageâ€™ glacier fluctuations, Gran Campo Nevado, southernmost Chile. Holocene, 2005, 15, 20-28.	1.7	81
8	Geochemical constraints on the sources of Southern Chile Trench sediments and their recycling in arc magmas of the Southern Andes. Journal of the Geological Society, 2003, 160, 57-70.	2.1	64
9	Holocene peat and lake sediment tephra record from the southernmost Chilean Andes (53-55Â°S). Andean Geology, 2003, 30, .	0.5	63
10	The significance of chemical, isotopic, and detrital components in three coeval stalagmites from the superhumid southernmost Andes (53Â°S) as high-resolution palaeo-climate proxies. Quaternary Science Reviews, 2011, 30, 443-459.	3.0	61
11	Palaeoecological constraints on late Glacial and Holocene ice retreat in the Southern Andes (53Â°S). Global and Planetary Change, 2007, 59, 49-66.	3.5	55
12	Millennium-scale volcanic impact on a superhumid and pristine ecosystem. Geology, 2006, 34, 609.	4.4	48
13	Late-glacial and Holocene vegetation history of the Magellanic rain forest in southwestern Patagonia, Chile. Vegetation History and Archaeobotany, 2004, 13, 249-255.	2.1	39
14	Late Pleistocene to Holocene marine transgression and thermohaline control on sediment transport in the western Magellanes fjord system of Chile (53Â°S). Quaternary International, 2007, 161, 90-107.	1.5	39
15	Glacier inventory of the Gran Campo Nevado Ice Cap in the Southern Andes and glacier changes observed during recent decades. Global and Planetary Change, 2007, 59, 87-100.	3.5	35
16	Holocene sea-surface temperature variability in the Chilean fjord region. Quaternary Research, 2014, 82, 342-353.	1.7	30
17	Holocene variations in productivity associated with changes in glacier activity and freshwater flux in the central basin of the Strait of Magellan. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 436, 112-122.	2.3	27
18	Natural mercury enrichment in a minerogenic fenâ€”evaluation of sources and processes. Journal of Environmental Monitoring, 2004, 6, 466-472.	2.1	24

#	Article	IF	Citations
19	Chlorophyll-a thin layers in the Magellan fjord system: The role of the water column stratification. Continental Shelf Research, 2016, 124, 1-12.	1.8	22
20	A 17-year Record of Meteorological Observations Across the Gran Campo Nevado Ice Cap in Southern Patagonia, Chile, Related to Synoptic Weather Types and Climate Modes. Frontiers in Earth Science, 2018, 6, .	1.8	22
21	Late Glacial and Holocene Paleogeographical and Paleoecological Evolution of the Seno Skyring and Otway Fjord Systems in the Magellan Region. Anales Del Instituto De La Patagonia, 2013, 41, 5-26.	0.1	20
22	Glacial and tectonic control on fjord morphology and sediment deposition in the Magellan region (53Â°S), Chile. Marine Geology, 2013, 346, 31-46.	2.1	19
23	Holocene denudation rates from the superhumid southernmost Chilean Patagonian Andes (53Â°S) deduced from lake sediment budgets. Geomorphology, 2013, 187, 135-152.	2.6	15
24	Magnetic signatures of the orogenic crust of the Patagonian Andes with implication for planetary exploration. Physics of the Earth and Planetary Interiors, 2015, 248, 35-54.	1.9	6
25	Mars MOURA magnetometer demonstration for high-resolution mapping on terrestrial analogues. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 127-142.	1.6	6
26	Environmental and coastline changes controlling Holocene carbon accumulation rates in fjords of the western Strait of Magellan region. Continental Shelf Research, 2020, 199, 104101.	1.8	6
27	Element mobility related to rock weathering and soil formation at the westward side of the southernmost Patagonian Andes. Science of the Total Environment, 2022, 817, 152977.	8.0	4
28	High-resolution stalagmite stratigraphy supports the Late Holocene tephrochronology of southernmost Patagonia. Communications Earth & Environment, 2022, 3, .	6.8	3
29	The Seno Otway pockmark field and its relationship to thermogenic gas occurrence at the western margin of the Magallanes Basin (Chile). Geo-Marine Letters, 2018, 38, 227-240.	1.1	2
30	Magnetometric Surveys for the Non-Invasive Surface and Subsurface Interpretation of Volcanic Structures in Planetary Exploration, a Case Study of Several Volcanoes in the Iberian Peninsula. Remote Sensing, 2022, 14, 2039.	4.0	2
31	Middle to Late Holocene mobilization of DOC-bound Pb and Y in the Magellanic moorlands (53Â°â€‰S) as a function of sea spray fertilization, climate variations and volcanic fallout? A preliminary report. E&G Quaternary Science Journal, 2018, 67, 1-6.	0.7	1