

Samuel Niedermann

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60
papers

1,930
citations

26
h-index

43
g-index

64
ext. papers

2,167
ext. citations

5
avg, IF

4.52
L-index

#	Paper	IF	Citations
60	Low slip rates and long-term preservation of geomorphic features in Central Asia. <i>Nature</i> , 2002 , 417, 428-32	50.4	166
59	Noble gas evidence for a lower mantle component in MORBs from the southern East Pacific Rise: Decoupling of helium and neon isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 2697-2715	5.5	155
58	Late Pleistocene/Holocene slip rate of the Zhangye thrust (Qilian Shan, China) and implications for the active growth of the northeastern Tibetan Plateau. <i>Tectonics</i> , 2004 , 23, n/a-n/a	4.3	105
57	Regional ¹⁰ Be production rate calibration for the past 12 ka deduced from the radiocarbon-dated Grflandsura and Russenes rock avalanches at 69° N, Norway. <i>Quaternary Geochronology</i> , 2011 , 6, 437-452	2.7	99
56	Rock avalanching into a landslide-dammed lake causing multiple dam failure in Las Conchas valley (NW Argentina) Evidence from surface exposure dating and stratigraphic analyses. <i>Landslides</i> , 2004 , 1, 113	6.6	92
55	Neotectonics and catastrophic failure of mountain fronts in the southern intra-Andean Puna Plateau, Argentina. <i>Geology</i> , 2001 , 29, 619	5	75
54	Erosion during extreme flood events dominates Holocene canyon evolution in northeast Iceland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2355-60	11.5	70
53	Origin of ore fluids in the Muruntau gold system: Constraints from noble gas, carbon isotope and halogen data. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5356-5370	5.5	64
52	Climatic versus tectonic control on river incision at the margin of NE Tibet: ¹⁰ Be exposure dating of river terraces at the mountain front of the Qilian Shan. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		62
51	Implications of the fault scaling law for the growth of topography: mountain ranges in the broken foreland of north-east Tibet. <i>Terra Nova</i> , 2004 , 16, 157-162	3	61
50	Eruption ages of Las Tres Vegenes volcano (Baja California): A tale of two helium isotopes. <i>Quaternary Geochronology</i> , 2010 , 5, 503-511	2.7	54
49	Tephrochronologic Constraints on Temporal Distribution of Large Landslides in Northwest Argentina. <i>Journal of Geology</i> , 2000 , 108, 35-52	2	52
48	Neon identifies two billion year old fluid component in Kaapvaal Craton. <i>Chemical Geology</i> , 2011 , 283, 287-296	4.2	50
47	The ²¹ Ne production rate in quartz revisited. <i>Earth and Planetary Science Letters</i> , 2000 , 183, 361-364	5.3	50
46	²¹ Ne versus ¹⁰ Be and ²⁶ Al exposure ages of fluvial terraces: the influence of crustal Ne in quartz. <i>Earth and Planetary Science Letters</i> , 2002 , 201, 575-591	5.3	48
45	Evidence for a nitrogen flux directly derived from the European subcontinental mantle in the Western Eger Rift, Central Europe. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 4935-4947	5.5	47
44	Natural laboratory NW Bohemia: Comprehensive fluid studies between 1992 and 2005 used to trace geodynamic processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	46

43	Dating the incision of the Yangtze River gorge at the First Bend using three-nuclide burial ages. <i>Geophysical Research Letters</i> , 2016 , 43, 101-110	4.9	38
42	Atmospheric noble gases in volcanic glasses from the southern Lau Basin: origin from the subducting slab?. <i>Earth and Planetary Science Letters</i> , 1998 , 160, 297-309	5.3	36
41	Interlaboratory comparison of cosmogenic ²¹ Ne in quartz. <i>Quaternary Geochronology</i> , 2015 , 26, 20-28	2.7	31
40	The cosmogenic record of mountain erosion transmitted across a foreland basin: Source-to-sink analysis of in situ ¹⁰ Be, ²⁶ Al and ²¹ Ne in sediment of the Po river catchment. <i>Earth and Planetary Science Letters</i> , 2016 , 452, 258-271	5.3	31
39	Indications for the existence of different magmatic reservoirs beneath the Eifel area (Germany): A multi-isotope (C, N, He, Ne, Ar) approach. <i>Chemical Geology</i> , 2013 , 356, 193-208	4.2	30
38	Multiple sources for mineralizing fluids in the Charmitan gold(-tungsten) mineralization (Uzbekistan). <i>Mineralium Deposita</i> , 2010 , 45, 667-682	4.8	30
37	The fluid budget of a continental plate boundary fault: Quantification from the Alpine Fault, New Zealand. <i>Earth and Planetary Science Letters</i> , 2016 , 445, 125-135	5.3	30
36	Evidence for ascending upper mantle-derived melt beneath the Cheb basin, central Europe. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	29
35	Tectonic implications of fluvial incision and pediment deformation at the northern margin of the Central Anatolian Plateau based on multiple cosmogenic nuclides. <i>Tectonics</i> , 2013 , 32, 1107-1120	4.3	27
34	Anomalously nucleogenic neon in North Chile Ridge basalt glasses suggesting a previously degassed mantle source. <i>Earth and Planetary Science Letters</i> , 1998 , 160, 447-462	5.3	26
33	Noble gas residence times of saline waters within crystalline bedrock, Outokumpu Deep Drill Hole, Finland. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 145, 159-174	5.5	25
32	Seismically induced changes of the fluid signature detected by a multi-isotope approach (He, CO ₂ , CH ₄ , N ₂) at the Wettingquelle, Bad Brambach (central Europe). <i>Journal of Geophysical Research</i> , 2007 , 112,		25
31	Evaluation of cosmogenic ³ He and ²¹ Ne production rates in olivine and pyroxene from two Pleistocene basalt flows, western Grand Canyon, AZ, USA. <i>Quaternary Geochronology</i> , 2009 , 4, 475-492	2.7	24
30	Surface exposure dating of young basalts (1000 ka) in the San Francisco volcanic field (Arizona, USA) using cosmogenic ³ He and ²¹ Ne. <i>Quaternary Geochronology</i> , 2014 , 19, 87-105	2.7	20
29	Surface exposure dating of Holocene basalt flows and cinder cones in the Kula volcanic field (Western Turkey) using cosmogenic ³ He and ¹⁰ Be. <i>Quaternary Geochronology</i> , 2016 , 34, 81-91	2.7	18
28	Inter-comparison of cosmogenic in-situ ³ He, ²¹ Ne and ³⁶ Cl at low latitude along an altitude transect on the SE slope of Kilimanjaro volcano (3°S, Tanzania). <i>Quaternary Geochronology</i> , 2011 , 6, 425-436	2.7	18
27	The Touissit-Bou Beker Mississippi Valley-Type District of Northeastern Morocco: Relationships to the Messinian Salinity Crisis, Late Neogene-Quaternary Alkaline Magmatism, and Buoyancy-Driven Fluid Convection. <i>Economic Geology</i> , 2015 , 110, 1455-1484	4.3	17
26	Noble gases in sulfide deposits of modern deep-sea hydrothermal systems: Implications for heat fluxes and hydrothermal fluid processes. <i>Chemical Geology</i> , 2015 , 409, 1-11	4.2	17

25	Monitoring of helium and carbon isotopes in the western Eger Rift area (Czech Republic): Relationships with the 2014 seismic activity and indications for recent (2000-2016) magmatic unrest. <i>Chemical Geology</i> , 2018 , 482, 131-145	4.2	16
24	Landslide Dams in the Central Andes of Argentina (Northern Patagonia and the Argentine Northwest). <i>Lecture Notes in Earth Sciences</i> , 2011 , 147-176		16
23	Noble gases in olivine phenocrysts from drill core samples of the Hawaii Scientific Drilling Project (HSDP) pilot and main holes (Mauna Loa and Mauna Kea, Hawaii). <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	15
22	⁴⁰ Ar/ ³⁹ Ar dating of the SP and Bar Ten lava flows AZ, USA: Laying the foundation for the SPICE cosmogenic nuclide production-rate calibration project. <i>Quaternary Geochronology</i> , 2013 , 18, 158-172	2.7	14
21	Neon and helium isotopes as tracers of mantle reservoirs and mantle dynamics. <i>Earth and Planetary Science Letters</i> , 2007 , 258, 334-344	5.3	13
20	Glacial chronology and production rate cross-calibration of five cosmogenic nuclide and mineral systems from the southern Central Andean Plateau. <i>Earth and Planetary Science Letters</i> , 2018 , 500, 242-253	5.3	12
19	16. Cosmic-Ray-Produced Noble Gases in Terrestrial Rocks: Dating Tools for Surface Processes 2002 , 731-784		11
18	Late Pleistocene landscape evolution in south-central Chile constrained by luminescence and stable cosmogenic nuclide dating. <i>Bulletin of the Geological Society of America</i> , 2010 , 122, 1235-1247	3.9	10
17	Plume-ridge interaction revisited: Evidence for melt mixing from He, Ne and Ar isotope and abundance systematics. <i>Earth and Planetary Science Letters</i> , 2008 , 268, 424-432	5.3	10
16	Regional distribution pattern of carbon and helium isotopes from different volcanic fields in the French Massif Central: Evidence for active mantle degassing and water transport. <i>Chemical Geology</i> , 2017 , 469, 4-18	4.2	7
15	He, Ne and Ar isotope signatures of mid-ocean ridge basalts and their implications for upper mantle structure: A case study from the Mid-Atlantic Ridge at 42°S. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 183, 94-105	5.5	6
14	The SPICE project: Production rates of cosmogenic ²¹ Ne, ¹⁰ Be, and ¹⁴ C in quartz from the 72 ka SP basalt flow, Arizona, USA. <i>Quaternary Geochronology</i> , 2019 , 54, 101019	2.7	5
13	Formation of epithermal Sn-Ag-(Zn) vein-type mineralization at the Pirquitas deposit, NW Argentina: Fluid inclusion and noble gas isotopic constraints. <i>Chemical Geology</i> , 2019 , 508, 78-91	4.2	5
12	Late Pleistocene-early Holocene paleoseismicity deduced from lake sediment deformation and coeval landsliding in the Calchaqués valleys, NW Argentina 2011 ,		5
11	Nature Does the Averaging In-Situ Produced ¹⁰ Be, ²¹ Ne, and ²⁶ Al in a Very Young River Terrace. <i>Geosciences (Switzerland)</i> , 2020 , 10, 237	2.7	4
10	Applying stable cosmogenic ²¹ Ne to understand surface processes in deep geological time (107-108 yr). <i>Earth and Planetary Science Letters</i> , 2018 , 498, 266-274	5.3	3
9	Subaqueous hot springs in Kızıldere Lake, Dalyan Channel and Fethiye-Göcek Bay (SW Turkey): Locations, chemistry and origins. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 345, 81-97	2.8	3
8	Correction to Evidence for ascending upper mantle-derived melt beneath the Cheb basin, central Europe <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	3

7	Origin and Evolution of Gas in Salt Beds of a Potash Mine. <i>Advances in Geosciences</i> ,54, 15-21		2
6	Microthermometry and noble gas isotope analysis of magmatic fluid inclusions in the Kerman porphyry Cu deposits, Iran: constraints on the source of ore-forming fluids. <i>Mineralium Deposita</i> ,1	4.8	1
5	Quaternary landscape evolution in a tectonically active rift basin (paleo-lake Mweru, south-central Africa). <i>Geomorphology</i> , 2021 , 381, 107669	4.3	1
4	The Schlaining quartz-stibnite deposit, Eastern Alps, Austria: constraints from conventional and infrared microthermometry and isotope and crush-leach analyses of fluid inclusions. <i>Mineralium Deposita</i> ,1	4.8	0
3	The SPICE project: Calibrated cosmogenic ^{26}Al production rates and cross-calibrated $^{26}\text{Al}/^{10}\text{Be}$, $^{26}\text{Al}/^{14}\text{C}$, and $^{26}\text{Al}/^{21}\text{Ne}$ ratios in quartz from the SP basalt flow, AZ, USA. <i>Quaternary Geochronology</i> , 2022 , 67, 101218	2.7	0
2	A geochemical study of the Sweet Home mine, Colorado Mineral Belt, USA: formation of deep hydrothermal vein-type molybdenum greisen and base metal mineralization. <i>Mineralium Deposita</i> ,1	4.8	0
1	Age and source of the Kizilirmak-Arsenopyrite-gold mineralization (Menderes Massif, Turkey) determined by Re-Os-He isotopes. <i>Ore Geology Reviews</i> , 2020 , 118, 103333	3.2	