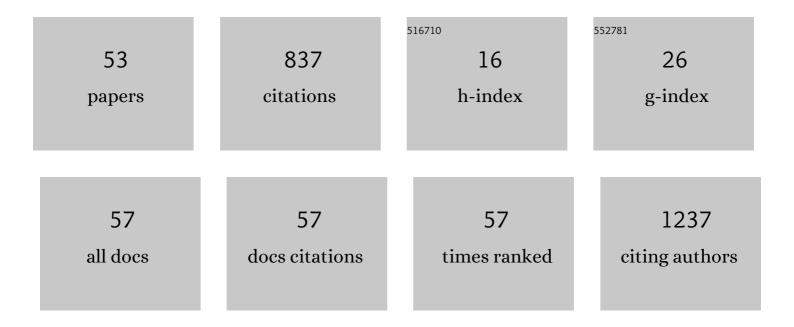
Matthias Leopold

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Colluvium: Definition, differentiation, and possible suitability for reconstructing Holocene climate data. Quaternary International, 2007, 162-163, 133-140.	1.5	90
2	Soil Salinity and pH Drive Soil Bacterial Community Composition and Diversity Along a Lateritic Slope in the Avon River Critical Zone Observatory, Western Australia. Frontiers in Microbiology, 2019, 10, 1486.	3.5	41
3	What drives large-scale glacier detachments? Insights from Flat Creek glacier, St. Elias Mountains, Alaska. Geology, 2020, 48, 703-707.	4.4	38
4	Using Geophysical Methods to Study the Shallow Subsurface of a Sensitive Alpine Environment, Niwot Ridge, Colorado Front Range, U.S.A. Arctic, Antarctic, and Alpine Research, 2008, 40, 519-530.	1.1	36
5	Influence of glacier advance on the development of the multipart Riffeltal rock glacier, Central Austrian Alps. Earth Surface Processes and Landforms, 2015, 40, 965-980.	2.5	35
6	Character, Age, and Ecological Significance of Pleistocene Periglacial Slope Deposits in Germany. Physical Geography, 2007, 28, 451-473.	1.4	34
7	Subsurface architecture of the Boulder Creek Critical Zone Observatory from electrical resistivity tomography. Earth Surface Processes and Landforms, 2013, 38, 1417-1431.	2.5	33
8	Karnatukul (Serpent's Glen): A new chronology for the oldest site in Australia's Western Desert. PLoS ONE, 2018, 13, e0202511.	2.5	32
9	Environmental drivers of soil microbial community structure and function at the Avon River Critical Zone Observatory. Science of the Total Environment, 2016, 571, 1407-1418.	8.0	29
10	Chronostratigraphy and geomorphology of washover fans in the Exmouth Gulf (NW Australia) – A record of tropical cyclone activity during the late Holocene. Quaternary Science Reviews, 2017, 169, 65-84.	3.0	26
11	The Impact of Soil Water Repellency and Slope upon Runoff and Erosion. Soil and Tillage Research, 2021, 205, 104756.	5.6	24
12	A comparison of gap-filling algorithms for eddy covariance fluxes and their drivers. Geoscientific Instrumentation, Methods and Data Systems, 2021, 10, 123-140.	1.6	21
13	Black soils, sediments and brown calcic luvisols: A pedological description of a newly discovered neolithic ring ditch system at Stephansposching, Eastern Bavaria, Germany. Quaternary International, 2011, 243, 293-304.	1.5	20
14	Quantifying prehistoric soil erosion—A review of soil loss methods and their application to a Celtic square enclosure (Viereckschanze) in Southern Germany. Geoarchaeology - an International Journal, 2007, 22, 873-889.	1.5	19
15	Mineralogy, magnetic susceptibility and geochemistry of Fe-rich Oxisols developed from several parent materials. Scientia Agricola, 2018, 75, 410-419.	1.2	19
16	A threatened ecological community: research advances and priorities for Banksia woodlands. Australian Journal of Botany, 2021, 69, 53.	0.6	18
17	Methods of surveying the thickness of humous horizons using ground penetrating radar (GPR): an example from the Garmisch-Partenkirchen area of the Northern Alps. European Journal of Forest Research, 2011, 130, 799-812.	2.5	17
18	Murujuga Rockshelter: First evidence for Pleistocene occupation on the Burrup Peninsula. Quaternary Science Reviews, 2018, 193, 266-287.	3.0	17

MATTHIAS LEOPOLD

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19	Integrating pedological and geophysical methods to enhance the informative value of an archaeological prospection – The example of a Roman villa rustica near Regensburg, Germany. Journal of Archaeological Science, 2010, 37, 1731-1741.	2.4	16
20	Significance of slope sediments layering on physical characteristics and interflow within the Critical Zone – Examples from the Colorado Front Range, USA. Applied Geochemistry, 2011, 26, S143-S145.	3.0	16
21	Time lapse electric resistivity tomography to portray infiltration and hydrologic flow paths from surface to cave. Journal of Hydrology, 2021, 593, 125810.	5.4	16
22	Combining sediment analysis and seismic refraction to describe the structure, thickness and distribution of periglacial slope deposits at Niwot Ridge, Rocky Mountains Front Range, Colorado, USA. Zeitschrift FÃ1¼r Geomorphologie, 2008, 52, 77-94.	0.8	15
23	Cryosphere: ice on Niwot Ridge and in the Green Lakes Valley, Colorado Front Range. Plant Ecology and Diversity, 2015, 8, 625-638.	2.4	15
24	Evaluation of surfactant effectiveness on water repellent soils using electrical resistivity tomography. Agricultural Water Management, 2017, 181, 56-65.	5.6	15
25	A ground-penetrating radar survey of late Holocene fluvial sediments in NW Namibian river valleys: characterization and comparison. Journal of the Geological Society, 2006, 163, 923-936.	2.1	14
26	Characteristics of a paleosol and its implication for the Critical Zone development, Rocky Mountain Front Range of Colorado, USA. Applied Geochemistry, 2011, 26, S72-S75.	3.0	13
27	Changing mountain permafrost from the 1970s to today - comparing two examples from Niwot Ridge, Colorado Front Range, USA. Zeitschrift Für Geomorphologie, 2014, 58, 137-157.	0.8	13
28	Chenier-type ridges in Giralia Bay (Exmouth Gulf, Western Australia) - Processes, chronostratigraphy, and significance for recording past tropical cyclones. Marine Geology, 2018, 396, 186-204.	2.1	13
29	Bacillus subtilis and surfactant amendments for the breakdown of soil water repellency in a sandy soil. Geoderma, 2019, 344, 108-118.	5.1	13
30	Geophysical prospection of a bronze foundry on the southern slope of the acropolis at athens, Greece. Archaeological Prospection, 2011, 18, 27-41.	2.2	12
31	Neolithic flint mines in Arnhofen, southern Germany: a ground-penetrating radar survey. Archaeological Prospection, 2004, 11, 57-64.	2.2	10
32	Edaphic niche characterization of four Proteaceae reveals unique calcicole physiology linked to hyperâ€endemism of Grevillea thelemanniana. New Phytologist, 2020, 228, 869-883.	7.3	10
33	Plant-Dependent Soil Bacterial Responses Following Amendment With a Multispecies Microbial Biostimulant Compared to Rock Mineral and Chemical Fertilizers. Frontiers in Plant Science, 2020, 11, 550169.	3.6	10
34	CPR images of periglacial slope deposits beneath peat bogs in the Central European Highlands, Germany. Geological Society Special Publication, 2003, 211, 181-189.	1.3	9
35	State of Highâ€Altitude Permafrost on Tropical Maunakea Volcano, Hawaii. Permafrost and Periglacial Processes, 2017, 28, 685-697.	3.4	9
36	Corrigendum to: A threatened ecological community: research advances and priorities for Banksia woodlands. Australian Journal of Botany, 2021, 69, 111.	0.6	9

MATTHIAS LEOPOLD

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37	The Coldest Places in Hawaii: The Ice-Preserving Microclimates of High-Altitude Craters and Caves on Tropical Island Volcanoes. Bulletin of the American Meteorological Society, 2018, 99, 2313-2324.	3.3	8
38	The application of quartz grain morphology measurements to studying iron-rich duricrusts. Catena, 2018, 170, 397-408.	5.0	7
39	Vacuum drying water-repellent sandy soil: Anoxic conditions retain original soil water repellency under variable soil drying temperature and air pressure. Geoderma, 2020, 372, 114385.	5.1	6
40	Quasi-3D mapping of soil moisture in agricultural fields using electrical conductivity sensing. Agricultural Water Management, 2022, 259, 107246.	5.6	6
41	Subsurface architecture of two tropical alpine desert cinder cones that hold water. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1148-1160.	2.8	5
42	Reconstruction of the old cultural surface of a Bronze Age Settlement – An example for a multi-methodological interaction of Soil Science and Archaeology in Southern Germany. Geodinamica Acta, 2007, 20, 257-265.	2.2	4
43	Colluvial filling of a glacial bypass channel near the Chiemsee (Stöttham) and its function as geoarchive. Zeitschrift Für Geomorphologie, 2012, 56, 371-386.	0.8	4
44	What to make of the â€~Murchison Cement'?A re-examination of a megafaunal fossil site in the Mid West, Western Australia. Australian Archaeology, 2014, 79, 116-123.	0.6	4
45	The first radiometric Pleistocene dates for Aboriginal occupation at Weld Range, inland Mid West, Western Australia. Australian Archaeology, 2016, 82, 60-66.	0.6	3
46	Rock-art microbiome: influences on long term preservation of historic and culturally important engravings. Microbiology Australia, 2018, 39, 33.	0.4	3
47	Origin and age of the Lower Bavarian sand dune landscape around Abensberg and Siegenburg. Zeitschrift FA1⁄4r Geomorphologie, 2011, 55, 515-536.	0.8	2
48	Periglacial Morphodynamics in the Upper Kaunertal. Geography of the Physical Environment, 2019, , 99-116.	0.4	2
49	Soil water repellency in sandy soil depends on the soil drying method, incubation temperature and specific surface area. Geoderma, 2021, 402, 115264.	5.1	2
50	Thermal imagery of woodland tree canopies provides new insights into drought-induced tree mortality. Science of the Total Environment, 2022, 834, 155395.	8.0	2
51	Thermal imaging of a hydrophobic soil's response to surfactant application at the Avon River Catchment Critical Zone Observatory. Geoderma, 2020, 368, 114309.	5.1	1
52	Soil Mapping Using Electromagnetic Induction to Assess the Suitability of Land for Growing Leptospermum nitens in Western Australia. Frontiers in Environmental Science, 0, 10, .	3.3	1
53	Valuable phosphorus retained by ironstone gravels can be measured as bicarbonate extractable P. Geoderma, 2022, 418, 115862.	5.1	0