



Universität
Basel

Research Project

Experimental Geomorphology

Project funded by own resources

Project title Experimental Geomorphology

Principal Investigator(s) [Kuhn, Nikolaus J.](#) ;

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Organisation / Research unit

Departement Umweltwissenschaften / Physiogeographie und Umweltwandel (Kuhn)

Project Website <http://www.physiogeo.unibas.ch/>

Project start 01.01.2009

Probable end 31.12.2015

Status Completed

The project encompasses the development of facilities to investigate the basic principles of sediment particle movement in running water. Experiments include movement of sediment in raindrop impacted flow, settling behaviour of aggregated sediment particles in agricultural watersheds after soil erosion, and the hydraulics surrounding basaltic sands on Mars.

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Add publication

Published results

1002679, Croft, H.; Anderson, K.; Kuhn, N. J., Characterising soil surface roughness using a combined structural and spectral approach, 1351-0754, European journal of soil science, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

1002682, Anderson, Karen; Croft, Holly; Milton, Edward J.; Kuhn, Nikolaus J., A simple spectro-goniometer for collection of multiple view angle reflectance factors, 2150-704X, Remote Sensing Letters, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

1549161, Kuhn, Nikolaus J., Rainfall Simulation Experiments on Crusting and Interrill Sediment Organic Matter Content on a Silt Loam from Devon, 0013-9998, Die Erde, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

1549167, Anderson, K.; Kuhn, Nikolaus J., Variations in soil structure and reflectance during a controlled crusting experiment. International Journal of Remote Sensing, International Journal of Remote Sensing, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

1549169, Pilditch, C. A.; Widdows, J.; Kuhn, N. J.; Pope, N. D.; Brinsley, M. D., Effects of low tide rainfall on the erodibility of intertidal cohesive sediments, 0278-4343, Continental shelf research, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

844312, Fister, Wolfgang; Iserloh, Thomas; Ries, Johannes B.; Schmidt, Reinhard-G., A portable wind and rainfall simulator for in situ soil erosion measurements, 0341-8162 ; 1872-6887, CATENA, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

844315, Fister, Wolfgang; Iserloh, Thomas; Ries, Johannes B.; Schmidt, Reinhard-G., Comparison of rainfall characteristics of a small portable rainfall simulator and a combined wind and rainfall simulator, 0372-8854, Zeitschrift für Geomorphologie, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

1532215, Fister, Wolfgang;, Ein mobiler Windkanal mit integrierter Beregnungsanlage zur experimentellen Erfassung der Bodenerosion durch Wind, Wasser und ihrer kombinierten Wirkung im Gelände, Publication: Thesis (Dissertationen, Habilitationen)

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