

PUBLIKATIONEN (publications)

Feldlabor Gersprenz-Einzugsgebiet / field lab Gersprenz basin ihwb TU Darmstadt (12/2023)

Begutachtete Publikationen (peer-reviewed publications)

2023

- David, A., Ruiz Rodriguez, E. & Schmalz, B. (2023): Importance of catchment hydrological processes and calibration of hydrological-hydrodynamic rainfall-runoff models in small rural catchments. *Journal of Flood Risk Management*: e12901; 30 p. DOI: 10.1111/jfr3.12901.
- Grosser, P.F. & Schmalz, B. (2023): Projecting Hydroclimatic Extremes: Climate Change Impacts on Drought in a German Low Mountain Range Catchment. *Atmosphere* 14(8): 1203. DOI: 10.3390/atmos14081203.
- Kissel, M., Bach, M. & Schmalz, B. (2023): Evaluation of baseflow modeling with BlueM.Sim for long-term hydrological studies in the German low mountain range of Hesse, Germany. *Hydrology* 10(12): 222. DOI: 10.3390/hydrology10120222.

2022

- Grosser, P.F., Xia, Z., Alt, J., Ruppel, U. & Schmalz, B. (2022): Virtual field trips in hydrological field laboratories: The potential of virtual reality for conveying hydrological engineering content. *Education and Information Technologies*. 27 p. DOI: 10.1007/s10639-022-11434-5.

2021

- David, A. & Schmalz, B. (2021): A Systematic Analysis of the Interaction between Rain-on-Grid-Simulations and Spatial Resolution in 2D Hydrodynamic Modeling. *Water* 13(17), 2346. DOI: 10.3390/w13172346.
- Grosser, P.F. & Schmalz, B. (2021): Low Flow and Drought in a German Low Mountain Range Basin. *Water* 13(3): 316, DOI: 10.3390/w13030316.
- Scholand, D. & Schmalz, B. (2021): Deriving the Main Cultivation Direction from Open Remote Sensing Data to Determine the Support Practice Measure Contouring. *Land* 10(11): 1279. DOI: 10.3390/land10111279.

2020

- David, A. & Schmalz, B. (2020): Flood Hazard Analysis in Small Catchments: Comparison of Hydrological and Hydrodynamic Approaches by the Use of Direct Rainfall. *Journal of Flood Risk Management* 2020; 13:e12639: 26 p. DOI: 10.1111/jfr3.12639.
- Kissel, M. & Schmalz, B. (2020): Comparison of baseflow separation methods in the German low mountain range. *Water* 12, 1740. DOI:10.3390/w12061740.

2019

- Schmalz, B. & Kruse, M. (2019): Impact of land use on stream water quality in the German low mountain range basin Gersprenz. *Landscape online* 72: 1-17. DOI 10.3097/LO.201972.