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Research Hydrologist

RESEARCH INTERESTS

Watershed hydrology; Application of remote sensing and GIS to watershed/regional scale problems in hydrology; Evaporation; Hydrological forecasting

EDUCATION

Ph.D. in Hydrologic Sciences, University of California, Davis (1997)

M. S. in Hydrology, University of New Hampshire (1994)

PUBLICATIONS

2021

Nagy, E. D., Szilagy, J., Torma, P., 2021. Assessment of dimension-reduction and grouping methods for catchment response time estimation in Hungary, *Journal of Hydrology: Regional Studies*, 38, 100971, doi: 10.1016/j.ejrh.2021.100971.

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Ma, N., Szilagyi, J., 2019. The complementary relationship (CR) of evaporation: a calibration-free diagnostic and benchmarking tool for large-scale terrestrial evapotranspiration modeling, *Water Resources Research*, 55(8), 7246-7274, doi: 10.1029/2019WR024867.

Zagyvai-Kiss, K., Kalicz, P., Szilagyi, J., Gribovszki, Z., 2019. On the specific water holding capacity of litter for three forest ecosystems in the eastern foothills of the Alps, *Agricultural and Forest Meteorology*, 278, doi: 10.1016/j.agrformet.2019.107656.

Ma, N., Szilagyi, J., Zhang, Y., Liu, W., 2019. Complementary-relationship-based modeling of terrestrial evapotranspiration across China during 1982-2012: Validations and spatiotemporal analyses, *Journal of Geophysical Research-Atmospheres*, 124, doi: 10.1029/2018JD029850.

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Ma, N., Zhang, Y., Xu, C.-Y., Szilagyi, J., 2015. Modeling actual evapotranspiration with routine meteorological variables in the data scarce region of the Tibetan Plateau: comparisons and implications, *Journal of Geophysical Research – Biogeosciences*, 120, 1-20, doi:10.1002/2015JG003006.

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PUBLICLY AVAILABLE DATA

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