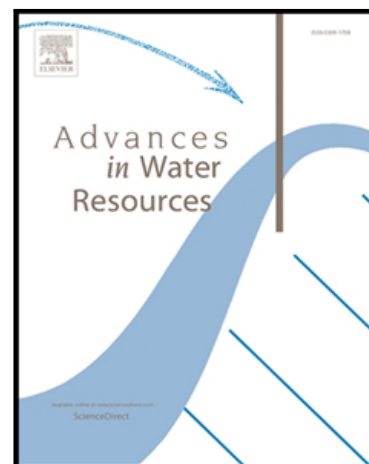


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Improved streamflow simulations by coupling Soil Moisture Analytical Relationship in EnKF based hydrological data assimilation framework

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1 Highlights

- 2 • Coupled SMAR model with EnKF to update root zone soil moisture for
3 improving streamflow.
- 4 • Study involves both synthetic and real data experiments.
- 5 • SMOS and ASCAT soil moisture retrievals are used for assimilation.
- 6 • Proposed approach enhances the assimilation efficiency for streamflow
7 simulations.
- 8 • Streamflow simulations are improved but only to a moderate level.

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