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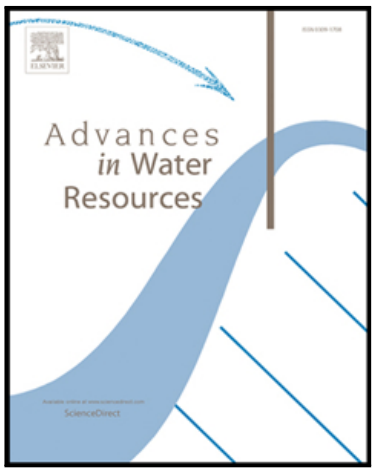

Global estimation of long-term persistence in annual river runoff

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Highlights:

- Hurst coefficient $H = 0.65$, as estimated in 696 annual, globally distributed, streamflow records with at least 80 years of data.
- Long-term persistence in annual streamflow is weaker than previous estimates.
- The estimated values of H can be reproduced by an auto-regressive AR(1) process.
- Some of the most common methods for the estimation of H coefficient, might not be able to discriminate short- and long-term persistence.

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