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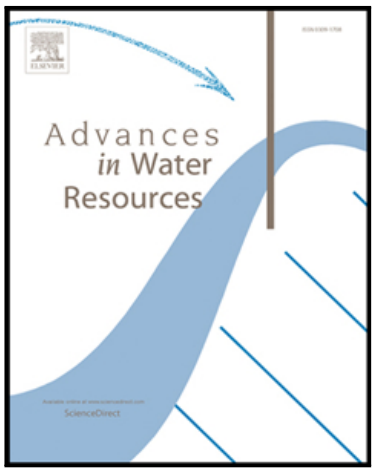

Solute dispersion for stable density-driven flow in randomly heterogeneous porous media

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Highlights

- We study processes underpinning spreading reduction in stable density-driven flows.
- We focus on the interactions between media heterogeneity and buoyancy effects.
- Velocity and pressure are decomposed in terms of stationary and dynamic contributes.
- Dynamic components accounts for the effects induced by density variability.
- We derive the equations for the ensemble of section-averaged concentrations.

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