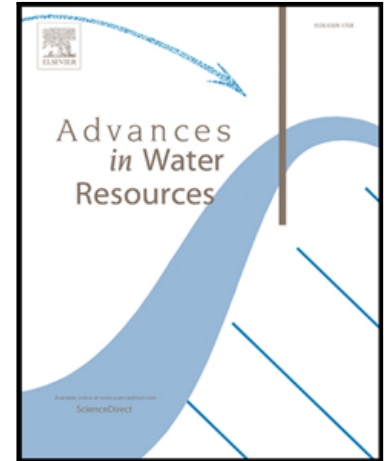


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Modeling of flow and mixing in 3D rough-walled rock fracture intersections

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**Highlights:**

- Direct simulation of fluid flow and solute transport in fracture-matrix systems;
- Channeling flow phenomenon in a 3D rough-walled rock fracture intersection;
- Impact of channeling flow on solute mixing at the fracture intersection;
- Dependence of mixing ratio of Péclet number ( $Pe$ ) and flow directionality.

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