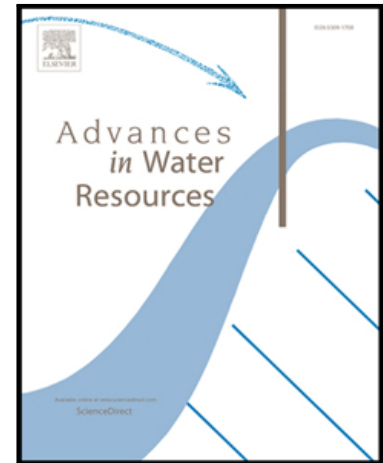


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Density effects on nanoparticle transport in the hyporheic zone

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### Highlights

- Numerical model validated by laboratory column and flume experiments on nanoparticles
- Nanoparticles enhance density-driven flow effects
- Trapping of nanoparticles within periodic bedforms is expected

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