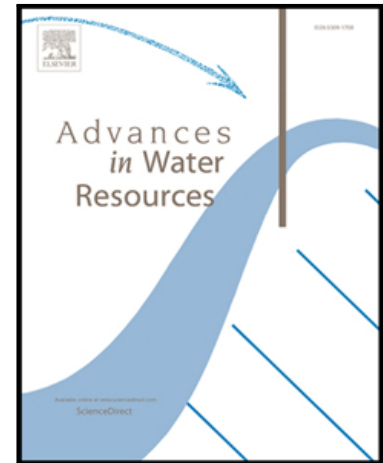


## Accepted Manuscript

Upscaling of dilution and mixing using a trajectory based Spatial Markov random walk model in a periodic flow domain

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**Highlights**

- We develop a new approach for upscaling transport in periodic flows
- We develop a combined upscaling-downscaling approach to predict mixing
- Agreement between our upscaled model and direct numerical simulations is excellent

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