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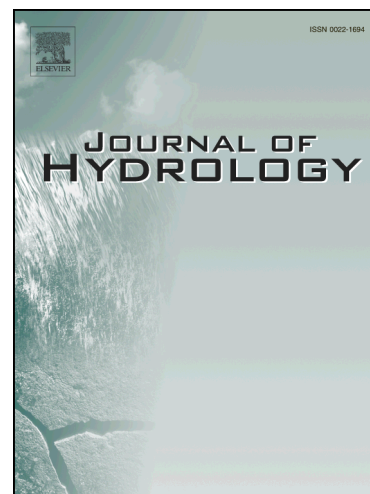
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**An embedded VPMM-AD model for riverine transient flow and non-reactive contaminant transports**

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