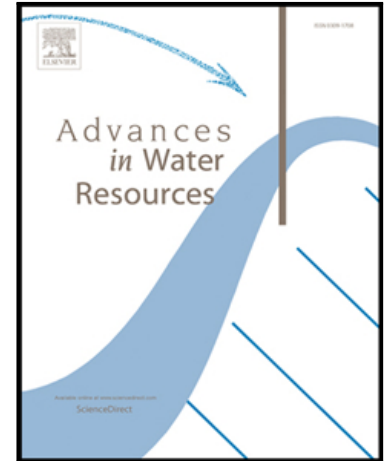


## Accepted Manuscript

Effect of river flow fluctuations on riparian vegetation dynamics:  
processes and models

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**Highlights**

- We focus on how river flow fluctuations (RFF) affect riparian vegetation dynamics
- The most relevant mechanisms are reviewed from a processes-based perspective
- The advances gained from a modeling point of view are considered and discussed
- The main models developed for RFF-riparian vegetation interactions are presented
- Different modeling approaches and results are compared

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