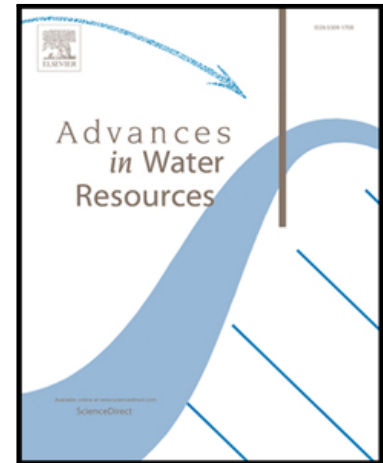


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Ecological and soil hydraulic implications of microbial responses to stress - A modeling analysis

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Highlights

- A new mechanistic model to predict the proliferation of biofilm in soils is proposed.
- Ecological and soil hydraulic consequences of microbial accumulation are explored
- Microbial dynamics respond to different environmental conditions and stresses.
- The biofilm compartment consists of active and dormant cells, EPS and enzymes.
- The release/use of EPS and dormancy are key microbial processes.

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