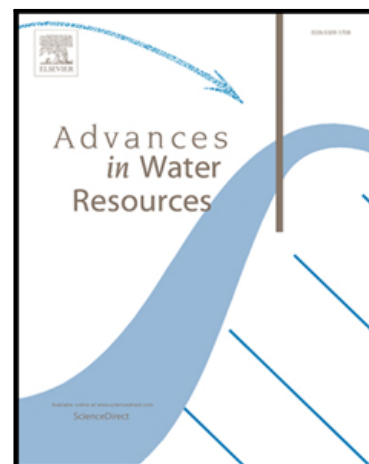


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Bayesian model selection in hydrogeophysics: Application to conceptual subsurface models of the South Oyster Bacterial Transport Site, Virginia, USA

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Highlights

- First comparative study of model selection in hydrogeophysics
- Brute force Monte Carlo estimations are infeasible in high parameter dimensions
- Laplace-Metropolis and Gaussian mixture importance sampling yield similar ranking

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