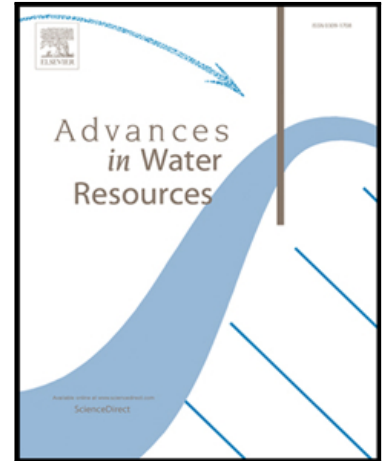


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Impact of microstructure evolution on the difference between geometric and reactive surface areas in natural chalk

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Highlights

- The difference between the geometric surface area and the reactive surface area of a natural porous structure increases over time in a sustained, imposed flow field.
- Surface area may increase as a result of fluid focusing even when the structure is chemically homogeneous.
- The growing and merging of microchannels near fluid entrance contribute to fast initial dissolution.

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