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Capillary pressure at irregularly shaped pore throats: Implications for water retention characteristics

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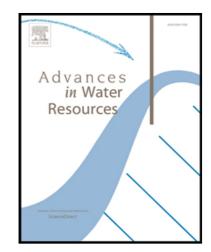
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Highlights:

- Lattice Boltzmann simulation can accurately compute capillary pressure in irregular pore channels.
- Our morphological analysis estimates the effective pore throat shape to compute capillary pressure without lattice Boltzmann simulation.
- Pore network models calibrated by these specific capillary pressures produce water retention curves similar to experiment.

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