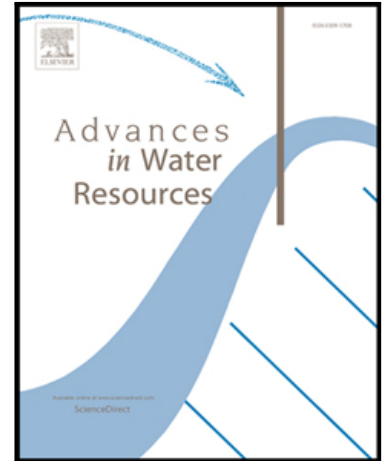


## Accepted Manuscript

Flow Rate Impacts on Capillary Pressure and Interface Curvature of Connected and Disconnected Fluid Phases during Multiphase Flow in Sandstone

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### Highlights

- We conduct quasi-static flow experiments, under three flow rates, in sandstone
- We link capillary pressure and image-based fluid-fluid interface curvatures
- We investigate capillary pressure-saturation relationships for different flow rates
- High capillary pressure (6.5 kPa) is successfully measured from image curvature
- Large air snap-off events are observed during drainage for all flow conditions

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