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Longitudinal Dispersion in Heterogeneous Layered Porous Media During Stable and Unstable Pore-Scale Miscible Displacements

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## Highlights

- Numerical simulations are carried out to model longitudinal dispersion at pore-scale
- Longitudinal dispersion coefficient is discovered to be a function of heterogeneity and layering
- Different dispersion regimes are identified based on the range of the Peclet number
- Scale-dependency of dispersion is governed by the layering configuration and viscosity ratio

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