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Non-Newtonian rheology property for two-phase flow on fingering phenomenon in porous media using the lattice Boltzmann method

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## Highlight

A lattice Boltzmann method for immiscible non-Newtonian two-phase flow is developed.

◆ The Newtonian fluid displacing shear thinning and shear thickening fluid in porous media is investigated.

◆ Various factors are examined for the fingering displacement.

◆ The rheology property of non-Newtonian fluid has significant effect on displacing efficiency.

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