

Diffusiophoresis for controlling colloid transport through partially saturated porous media

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- Depending on the mobility Γ_p diffusiophoresis (DP) favours particle mobilization from or particle trapping within the dead-end zones
- With an increase in spatial heterogeneity of the host medium or decrease in water saturation DP effects are stronger
- **DP at pore-scale impacts macroscopic particle dispersion and provides a means for controlling particle transport through porous media**

