

## Accepted Manuscript

Title: Transport of engineered nanoparticles in partially saturated sand columns

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Highlights

Transport of ENPs in partially saturated sand columns (PSSC) is presented

High mobility of Au/Ag-NPs, and strong retention of ZnO-NPs in PSSC was found

Presence of  $\text{CaCl}_2$  strongly reduced Ag-NP mobility in PSSC

Ag-NPs Sulfidation resulted in a stable  $\text{Ag}_2\text{S}$ -NP suspension and high mobility in PSSC

Humic acid increases ENP mobility and enables remobilization of captured ZnO-NPs

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