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Simulating the mobility of micro-plastics and other fiber-like objects in saturated porous media using constrained random walks

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1 Highlights

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- A method for simulating the transport of large fiber-like colloids in
 porous media is presented.
- The approach uses a bread-rod-chain to discretize a fiber and explicitly
 model its motion, while keeping the length of each fiber constant.
- The length of the fiber relative to the mean pore-opening is shown to
- ⁷ be a control on fiber retardation relative to passive solutes.

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