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# Effect of disorder in the pore-scale structure on the flow of shear-thinning fluids through porous media

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**Highlights**

- A non-Newtonian fluid flow through a porous medium induces macroscale anisotropy.
- The induced anisotropy prevents to use only a scalar to describe the macroscale flow.
- There is a competition between the nonlinearity and the disorder.

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