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Title: Dynamics of Fluid Migration into Porous Solid Matrix during High Pressure Treatment

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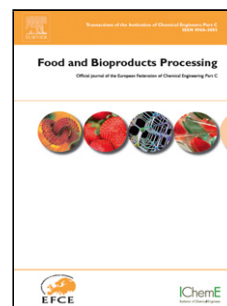
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Highlights

- Fickian models described the dynamics of pressure driven flow in porous media
- Optimization algorithms improved ill conditions of lumped transport parameters
- Zero-order kinetics could be used to model transport at certain pressure levels
- Effective porosity was estimated during modeling of highly forced liquid flows

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