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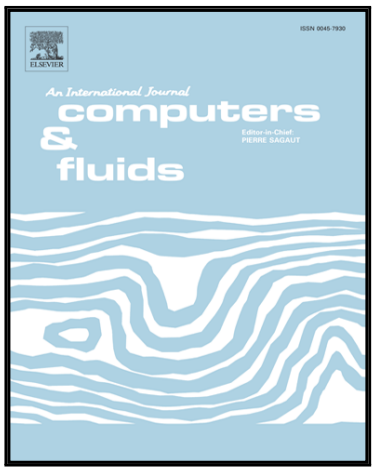

Numerical simulation of circular particles migration in oscillatory Poiseuille flow

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Highlights

- The oscillation causes a strong modification of the eddy behind the particle.
- The pressure distribution on the body with rotation behavior is revealed.
- Distinct flow patterns during circular particles settling are summarized.
- The Magnus lift influences the balance between walls and particles interplay.

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