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Numerical simulation of Marangoni convection within absorptive aqueous Li-Br

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Highlights

- Numerical model for simulating Marangoni convection in sorptive mixtures
- Results constitute a first term of comparison with a nearly bi-dimensional apparatus
- Marangoni cells due to the coupling of shear stress, surface tension and pressure gradients
- Implementation in film flow over a horizontal absorber tube at constant vapour pressure
- Estimation of the transfer performance enhancement on a falling film absorber tube

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