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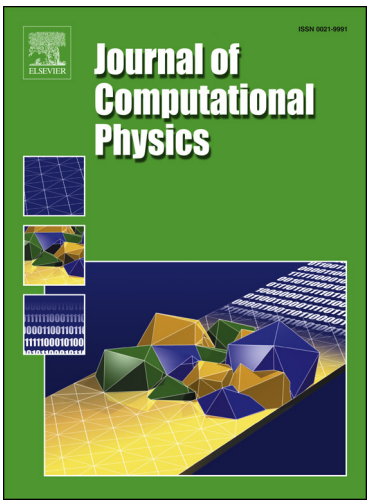

Pressure-based algorithm for compressible interfacial flows with acoustically-conservative interface discretisation

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Highlights

- A novel pressure-based algorithm for the simulation of compressible interfacial flows is proposed.
- Interface discretisation method that retains the acoustic properties of the compressible flow.
- Accurate propagation, reflection and transmission of acoustic waves in interfacial flows.
- Accurate capturing and prediction of shock waves and rarefaction fans, including shock-interface interaction.

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