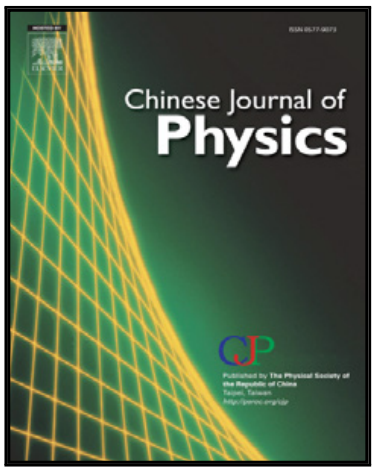

Effect of melting heat transfer on nanofluid flow in the presence of a magnetic field using the Buongiorno Model

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Highlights

- Nanofluid flow over a stretching plate with the existence of a magnetic field is studied.
- The melting heat transfer of the nanofluid in a porous medium is studied.
- The Runge-Kutta method is applied to solve this problem.
- The Nusselt number reduces with an increase of the porosity and melting parameters.