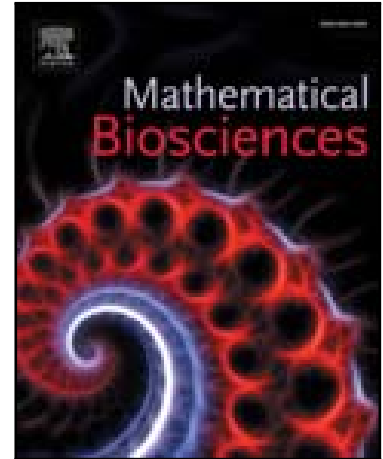


## Accepted Manuscript

Heat transfer and fluid flow of blood with nanoparticles through porous vessels in a magnetic field: a quasi-one dimensional analytical approach

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## Highlights

- Blood flow with nanoparticles through porous vessel with magnetic field is studied
- Viscosity of nanofluid is determined by Constant, Reynolds' and Vogel's models
- Effects of porosity, thermophoresis, Brownian motion and magnetic are determined
- It is observed that velocity reduces at higher values of magnetic field intensity

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