

Accepted Manuscript

Unsteady MHD flow and heat transfer of fractional Maxwell viscoelastic nanofluid with Cattaneo heat flux and different particle shapes

Ming Shen, Shurui Chen, Fawang Liu

PII: S0577-9073(17)30799-2
DOI: [10.1016/j.cjph.2018.04.024](https://doi.org/10.1016/j.cjph.2018.04.024)
Reference: CJPH 522



To appear in: *Chinese Journal of Physics*

Received date: 28 June 2017
Revised date: 15 February 2018
Accepted date: 15 April 2018

Please cite this article as: Ming Shen, Shurui Chen, Fawang Liu, Unsteady MHD flow and heat transfer of fractional Maxwell viscoelastic nanofluid with Cattaneo heat flux and different particle shapes, *Chinese Journal of Physics* (2018), doi: [10.1016/j.cjph.2018.04.024](https://doi.org/10.1016/j.cjph.2018.04.024)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- The effect of nanoparticle shape is first introduced to the study fractional Maxwell viscoelastic nanofluid
- Fractional shear stress and Cattaneo heat flux model are utilized.
- The governing equations with mixed time-space fractional derivative are solved numerically.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8145000>

Download Persian Version:

<https://daneshyari.com/article/8145000>

[Daneshyari.com](https://daneshyari.com)