





Dynamics pattern of a radioactive rGO-magnetite-water flowed by a vibrated Riga plate sensor with ramped temperature and concentration

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Highlights

- A unique part of the present effort is to explain the flow analysis of an electrically low performing water-based hybrid nanofluid comprising reduced graphene and magnetite nanomaterials towards a vibrated Riga plate sensor in the event of ramped temperature and concentration at the boundary wall.
- Radiation heat, chemical reaction, and Darcian porous matrix are assumed to affect the designed model.
- The important aspect of this modelling is magnetization impact generated by the Riga plate is analyzed.