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| Title | [Unsteady MHD bio-nanoconvective anistropic slip flow past a vertical rotating cone](http://www.doiserbia.nb.rs/Article.aspx?id=0354-98361700117A) | | |
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| Abstract |  |

The MHD bioconvective of nanofluid flow past a rotating cone with anistropic velocity slips, thermal slip, mass slip and microorganism slips is studied theoretically and numerically. Suitable similarity transformations are used to transform the governing boundary-layer equations into non-linear ODE which were then solved numerically. The effect of the governing parameters on the dimensionless velocities, temperature, nanoparticle volume fraction (concentration), density of motile microorganisms as well as on the local skin friction, local Nusselt, Sherwood number and the local motile microorganism numbers are examined. Results from this investigation were compared with previous related investigations and good agreement was found. It is found that for both in the presence and absence of magnetic field, increasing velocity slips reduce the friction factor. It is also found that increasing thermal slip, mass slip and microorganism slips strongly reduce heat, mass and microorganism transfer, respectively. This study is relevant in bio-chemical industries in which microfluidic devices involved