



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_41938
Title of the Manuscript:	Heat and Mass Transfer of a Chemically Reacting MHD Micropolar Fluid Flow over an Exponential Stretching Sheet with Slip Effects
Type of the Article	Original Research Article

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments		
<b>Minor</b> REVISION comments	<p>The authors presented a study on Heat and Mass Transfer of a Chemically Reacting MHD Micropolar Fluid Flow over and Exponential Stretching Sheet with Slip Effects. The following improvement suggestions must be incorporated:</p> <ol style="list-style-type: none"> <li>1. What is the novelty of present study?</li> <li>2. The scientific significance is not sufficient and the innovation is not clear. Many of the results presented are not supported with physical reasons.</li> <li>3. The authors' need to include the variation in skin friction coefficient, Nusselt and Sherwood numbers involving pertinent parameters with figures.</li> <li>4. The author should update the write up by incorporating the following MHD relevant published articles:</li> </ol> <p>Zainal, Abdul Aziz, Zuhaila Ismail, and Faisal Salah. "Entropy analysis with thermal radiation for electrical MHD flow of nanofluid." <i>International Journal for Multiscale Computational Engineering</i>, 2017</p> <p>Daniel YS, Daniel SK. Effects of buoyancy and thermal radiation on MHD flow over a stretching porous sheet using homotopy analysis method. <i>Alexandria Engineering Journal</i>. 2015 Sep 30;54(3):705-12.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Entropy analysis in electrical magnetohydrodynamic (MHD) flow of nanofluid with effects of thermal radiation, viscous dissipation, and chemical reaction. <i>Theoretical and Applied Mechanics Letters</i>. 2017 Jun 21.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Effects of slip and convective conditions on MHD flow of nanofluid over a porous nonlinear stretching/shrinking sheet. <i>Australian Journal of Mechanical Engineering</i>. 2017 Aug 5:1-7.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Impact of thermal radiation on electrical MHD flow of</p>	<p>The motivation of this present work is to investigate the problem of heat and mass transfer of non-Newtonian Micropolar fluid over an exponentially stretching sheet with higher order chemical reaction and slip conditions.</p> <p>The related problems in the literature have been done on Newtonian fluid. However, in this problem the fluid considered is non-Newtonian micropolar fluid which has important applications as described in the introduction. Such problem with exponentially stretching and slip conditions is sparse in the literature.</p> <p>Also, as stated in the introduction, the stretching of sheets may be not necessarily being linear type hence we studied an exponentially stretching case. The applications are also stated. In the introductory part of the work.</p> <p>The variations of the skin friction coefficient, Nusselt number and Sherwood numbers for some pertinent parameters have been presented through Tables to reduce the number of figures.</p> <p>The write up have been updated by incorporating some of the suggested relevant published articles as indicated in the work and references.</p>



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	<p>nanofluid over nonlinear stretching sheet with variable thickness. Alexandria Engineering Journal. 2017 Aug 12.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Effects of thermal radiation, viscous and Joule heating on electrical MHD nanofluid with double stratification. Chinese Journal of Physics. 2017 Jun 30;55(3):630-51.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Numerical study of Entropy analysis for electrical unsteady natural magnetohydrodynamic flow of nanofluid and heat transfer. Chinese Journal of Physics. 2017 Oct 1;55(5):1821-48.</p> <p>Daniel YS. Laminar Convective Boundary Layer Slip Flow over a Flat Plate using Homotopy Analysis Method. Journal of The Institution of Engineers (India): Series E. 2016 Oct 1;97(2):115-21.</p> <p>Daniel YS. MHD Laminar Flows and Heat Transfer Adjacent to Permeable Stretching Sheets with Partial Slip Condition. Journal of Advanced Mechanical Engineering. 2017;4(1):1-5.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Thermal radiation on unsteady electrical MHD flow of nanofluid over stretching sheet with chemical reaction. Journal of King Saud University-Science. 2017 Oct 16.</p> <p>Daniel YS. Steady MHD Boundary-layer Slip Flow and Heat Transfer of Nanofluid over a Convectively Heated of a Non-linear Permeable Sheet. Journal of Advanced Mechanical Engineering. 2016;3(1):1-4.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Double stratification effects on unsteady electrical MHD mixed convection flow of nanofluid with viscous dissipation and Joule heating. Journal of Applied Research and Technology. 2017 Oct 14.</p> <p>Daniel YS, Aziz ZA, Ismail Z, Salah F. Thermal stratification effects on MHD radiative flow of nanofluid over nonlinear stretching sheet with variable thickness. Journal of Computational Design and Engineering. 2017 Sep 19.</p>	
<b>Optional/General</b> comments		