



SDI Review Form 1.6

Journal Name:	Asian Journal of Advanced Research and Reports
Manuscript Number:	Ms_AJARR_47539
Title of the Manuscript:	Analysis of Non-Darcy MHD flow of a Casson fluid over a Non-linearly stretching sheet with partial slip in a porous medium
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)
Compulsory REVISION comments	<p>The paper will be accepted for publication after conducting the major revision.</p> <p>(1) The authors must correct the English mistakes like the first line in the abstract ... Analysis of Non-Darcy ... Here "Analysis of Non-Darcy" must be "analysis of non-Darcy". Similarly in line 10 the authors replace the sentence "The study is done using figures and tables" with proper words. Note that whole paper must be carefully checked for the English, grammar and punctuation corrections.</p> <p>(2) The introduction part is weak. The authors should read and cite the following papers for stretching surfaces.</p> <p>(i) Thin film flow of a second-grade fluid in a porous medium past a stretching sheet with heat transfer. (2017) Alexandria Engineering Journal, https://dx.doi.org/10.1016/j.aej.2017.01.036.</p> <p>(ii) Thermophoresis and thermal radiation with heat and mass transfer in a magnetohydrodynamic thin film second-grade fluid of variable properties past a stretching sheet (2017) European Physical Journal Plus, 132, 11, https://dx.doi.org/10.1140/epjp/i2017-11277-3.</p> <p>(iii) Magnetohydrodynamic nanoliquid thin film sprayed on a stretching cylinder with heat transfer.(2017) (http://www.mdpi.com) Journal of Applied Sciences, 7, 271.</p> <p>(iv) Flow and heat transfer in water based liquid film fluids dispensed with graphene nanoparticles (2018) Results in Physics, https://dx.doi.org/10.1016/j.rinp.2018.01.032. Authors have discussed the non-Newtonian Casson fluid. They must explain in a paragraph about the non-Newtonian fluids in introduction part and then cite the following papers concentrating on non-Newtonian effect.</p> <p>(i) Mixed convection in gravity-driven thin film non-Newtonian nanofluids flow with gyrotactic microorganisms, (2017) Results in Physics, 7:4033-4049. http://dx.doi.org/10.1016/j.rinp.2017.10.017.</p> <p>(ii) Non-Newtonian nanoliquids thin film flow through a porous medium with magnetotactic microorganisms. Journal of Applied Nanoscience, (2018) https://dx.doi.org/10.1007/s13204-018-0834-5.</p> <p>(iii) Magnetohydrodynamic second grade nanofluid flow containing nanoparticles and gyrotactic microorganisms. Journal of Computational and Applied Mathematics. 2018, 37, 6332–6358</p> <p>(iv) Bioconvection in second grade nanofluid flow containing nanoparticles and gyrotactic microorganisms (2018) Brazilian Journal of Physics, 43(4):227-241, https://dx.doi.org/10.1007/s13538-018-0567-7</p> <p>(v) Study of two dimensional boundary layer flow of a thin film fluid with</p>	<p>1. The work has been revised and where needed correction is done.</p> <p>2.Introduction part and reference ([22] to {35]) are revised and improved using the work referred by the reviewer..</p> <p>3. 'sgn' is defined and the sentences revised.</p> <p>4. to 9. All the symbols are corrected and defined..</p> <p>10. All the graphs are revised.</p> <p>11. Result have been compared with reference[13]..</p> <p>12. Discussion part have been improved..</p>



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	<p>variable thermo-physical properties in three dimensions space. Journal of AIP Advances, 2018, 8, 105318</p> <p>(vi) Simulation of bioconvection in the suspension of second grade nanofluid containing nanoparticles and gyrotactic microorganisms. Journal of AIP Advances 2018, 8, 105210.</p> <p>(vii) Slip flow of Eyring-Powell nanoliquid film containing graphene nanoparticles due to an unsteady stretching sheet with heat transfer. Journal of AIP Advances 2018, 8, 115302</p> <p>(viii) Brownian motion and thermophoresis effects on MHD mixed convective thin film second-grade nanofluid flow with Hall effect and heat transfer past a stretching sheet. Journal of Nanofluids 2017, 6(5): 812-829, https://doi.org/10.1166/jon.2017.1383.</p> <p>(ix) Hall current and thermophoresis effects on magnetohydrodynamic mixed convective heat and mass transfer thin film flow. Journal of Physics Communications (2018), https://doi.org/10.1088/2399-6528/aaf830.</p> <p>(x) Entropy generation in MHD mixed convection non-Newtonian second-grade nanoliquid thin film flow through a porous medium with chemical reaction and stratification, Journal of Entropy, 2019, 21, 139; doi:10.3390/e21020139</p> <p>(3) Define “sgn” , “N” in line 98. Replace the line 101, “We define”.</p> <p>(4) In line 108, there is B while in line 109 it is B1. Similarly in line 67, there is B and in line 87, there is B1. The authors must remove this confusion.</p> <p>(5) All the mathematical symbols must be Italic like in line 104 “x-component”, “v” is the velocity etc.</p> <p>(6) In line 112, “K1”, 1 should be in subscript.</p> <p>(7) In line 113, Casso fluid parameter should be defined where it is introduced for the first time.</p> <p>(8) In line 114 “n” is defined. It should be defined in the line where it is first time introduced.</p> <p>(9) The last term in line 118, should be defined directly after the line 117.</p> <p>(10) All the graphs are negative except the geometry. Do the authors can present some special reason for it?</p> <p>(11) Authors must compare their results with the published results.</p> <p>(12) Discussion part is weak. Authors should improve it.</p>	
Minor REVISION comments		
Optional/General comments		



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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	Author expresses sincere thanks to the reviewer for the valuable comments and suggestions.