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Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_31015
Title of the Manuscript:	Numerical study of Soret, Dufour and Viscous dissipation parameter's Effects on steady magnetohydrodynamic Casson fluid flow through non-Darcy porous media
Type of the Article	<u>Original Research Article</u>

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	1. Comparison of results 2.Numerical method has to be explained 3. Modelling laminar transport phenomena in a Casson rheological fluid from a horizontal circular cylinder with partial slip, Proc IMechE- Part E: J. Process Mechanical Engineering, 227 (4) 309-326 (2013). * Non-similar computational solution for boundary layer flows of non-Newtonian fluid from an inclined plate with thermal slip J. Applied Fluid Mechanics, 9 (2) 795-807 (2016). *** Lie group analysis and numerical solutions for non-Newtonian nanofluid flow in a porous medium with internal heat generation, Physica Scripta 87 (2013) 025401 (14pp) **** Numerical study of free convection magnetohydrodynamic heat and mass transfer from a stretching surface to a saturated porous medium with Soret and Dufour effects, Computational Materials Science, 46, 1, 57-65 (2009). ***** Radiative optically-dense magnetized transient reactive transport phenomena with cross diffusion and dissipation effects: numerical simulations, J.	Sir, thank you for your valuable comments on the research paper. According to your instructions following changes have been done. In the result and discussion comparison of results is done; and numerical results are explained. Following references ,mentioned by you, are added in the references: 1. V Ramachandra Prasad , A Subba Rao , N Bhaskar Reddy , B Vasu and O Anwar Be'g,Modelling laminar transport phenomena in a Casson rheological fluid from a horizontal circular cylinder with partial slip, Proc IMechE- Part E: J. Process Mechanical Engineering, 227 (4) 309-326 (2013). 2. A.Subba Rao1†, V. Ramachandra Prasad1 , N. Nagendra1 , N. Bhaskar Reddy2 and O. Anwar Beg, Non-Similar Computational Solution for Boundary Layer Flows of Non-Newtonian Fluid from an Inclined Plate with Thermal Slip, Journal of Applied Fluid Mechanics, Vol. 9, No. 2, pp. 795-807, 2016. www.jafmonline.net, ISSN 1735-



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	Taiwan Inst. Chemical Engineers (2016). DOI.ORG/10.1016/J.JTICE.2016.06.003 (15 pages) *****MHD dissipative flow and heat transfer of Casson fluids due to metachronal wave propulsion of beating cilia with thermal and velocity slip effects under an oblique magnetic field, Acta Astronautica, 128, 1-12 (2016). English language has to be improved	3572, EISSN 1735-3645. 3. Md Jashim Uddin, N H Md Yusoff, O Anwar Bé'g and Ahamd Izani Ismail , Lie group analysis and numerical solutions for non-Newtonian nanofluid flow in a porous medium with internal heat generation, IOP PUBLISHING PHYSICA SCRIPTA, 87 (2013) 025401 (14pp). doi:10.1088/0031-8949/87/02/025401. 4. O. Anwar Bé'g, A.Y. Bakier, V.R. Prasad, Numerical study of free convection magnetohydrodynamic heat and mass transfer from a stretching surface to a saturated porous medium with Soret and Dufour effects ,Computational Materials Science, Volume 46, Issue 1, July 2009 , Pages 57-65. 5. Beg, A, Ferdows, M, Beg, ETA, Ahmed, T, Wahiduzzaman, M and Alam, MM , 'Numerical investigation of radiative optically-dense transient magnetized reactive transport phenomena with cross diffusion, dissipation and wall mass flux effects' , Journal of the Taiwan Institute of Chemical Engineers, 66 . J. Taiwan Inst. Chemical Engineers, (15 pages)(2016). DOI.ORG/10.1016/J.JTICE.2016.06.003 (2016). 6. Akbar, NS, Tripathi, D, Beg, A and Khan, ZH , MHD dissipative flow and heat transfer of casson fluids due to metachronal wave propulsion of beating cilia with thermal and velocity slip effects under an oblique
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		magnetic field , Acta Astronautica, 128 , pp. 1-12(2016)
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		