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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)
<u>Compulsory</u> REVISION comments	The authors studied the effects of Soret , Dufour and Viscous dissipation parameters on steady magnetohydrodynamic Casson fluid flow through non-Darcy porous medium is explored. By suitable similarity transformations, the governing boundary layer equations are transformed to ordinary differential equations. The method 'The numerical computation with bvp4c, a MATLAB program' is applied to solve these equations. Before final acceptance, the authors should incorporate the following revisions. 1. Add a separate section for defined symbols. 2. Literature survey is poor. The authors should add the following references in Introduction part. ☺ R. Srinivasa Raju, G. Jithender Reddy, J. Anand Rao, M. M. Rashidi, Rama Subba	Sir, thank you for your valuable comments on the research work As mentioned in comment section, following changes have been done in the manuscript. After reference separate section is given for symbols. Following references, as mentioned by you ,have been added to the reference section. 1. R. Srinivasa Raju, G. Jithender Reddy, J. Anand Rao, M. M. Rashidi, Rama Subba Reddy Gorla*, Analytical and Numerical Study of Unsteady MHD Free Convection Flow over an Exponentially Moving Vertical Plate With Heat Absorption, International Journal of Thermal Sciences, Vol. 107, pp. 303 – 315, 2016. 2. R. Srinivasa Raju, G. Jitthender Reddy, J. Anand Rao, M. M. Rashidi,



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	Reddy Gorla*, Analytical and Numerical Study of Unsteady MHD Free Convection Flow over an Exponentially Moving Vertical Plate With Heat Absorption, <i>International Journal of Thermal Sciences</i>, Vol. 107, pp. 303 – 315, 2016. ☺ R. Srinivasa Raju, G. Jitthender Reddy, J. Anand Rao, M. M. Rashidi, Thermal Diffusion and Diffusion Thermo Effects on an Unsteady Heat and Mass Transfer MHD Natural Convection Couette Flow Using FEM, <i>Journal of Computational Design and Engineering</i>, Vol. 3, Issue 4, pp. 349 – 362, 2016, DOI: 10.1016/j.icde.2016.06.003. ☺ R. Srinivasa Raju, Effects Of Soret And Dufour On Natural Convective Fluid Flow Past A Vertical Plate Embedded In Porous Medium In Presence Of Thermal Radiation Via FEM, <i>Journal of the Korean Society for Industrial and Applied Mathematics</i>, Vol. 20, No. 4, pp. 309 – 332, 2016. ☺ R. Srinivasa Raju, M. Anil Kumar, Y.	Thermal Diffusion and Diffusion Thermo Effects on an Unsteady Heat and Mass Transfer MHD Natural Convection Couette Flow Using FEM, <i>Journal of Computational Design and Engineering</i>, Vol. 3, Issue 4, pp. 349 – 362, 2016, DOI: 10.1016/j.icde.2016.06.003. 3. R. Srinivasa Raju, Effects Of Soret And Dufour On Natural Convective Fluid Flow Past A Vertical Plate Embedded In Porous Medium In Presence Of Thermal Radiation Via FEM, <i>Journal of the Korean Society for Industrial and Applied Mathematics</i>, Vol. 20, No. 4, pp. 309 – 332, 2016. 4. R. Srinivasa Raju, M. Anil Kumar, Y. Dharmendar Reddy, Unsteady MHD Free Convective Flow Past A Vertical Porous Plate With Variable Suction, <i>ARPN Journal of Engineering and</i>
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	Dharmendar Reddy, Unsteady MHD Free Convective Flow Past A Vertical Porous Plate With Variable Suction, <i>ARPJ Journal of Engineering and Applied Sciences</i>, Vol. 11, No. 23, pp. 13608 – 13616, 2016. ☺ R. Srinivasa Raju, N. Venkatesh, M. Anil Kumar, G. Jithender Reddy, Influence Of Transpiration On Unsteady Heat Transfer MHD Fluid Flow Over An Infinite Vertical Plate In Presence Of Hall Current, <i>ARPJ Journal of Engineering and Applied Sciences</i>, Vol. 11, No. 23, pp. 14008 – 14013, 2016. ☺ G. Jitthender Reddy, R. Srinivasa Raju, J. Anand Rao, Thermal Diffusion and Diffusion Thermo impact on Chemical reacted MHD Free Convection from an Impulsively Started Infinite Vertical Plate embedded in a Porous Medium using FEM, <i>Journal of Porous Media</i>, 2016 (In press). ☺ Ramya Dodda, R. Srinivasa Raju, J. Anand Rao, Numerical Simulation Of	Applied Sciences, Vol. 11, No. 23, pp. 13608 – 13616, 2016. 5. R. Srinivasa Raju, N. Venkatesh, M. Anil Kumar, G. Jithender Reddy, Influence Of Transpiration On Unsteady Heat Transfer MHD Fluid Flow Over An Infinite Vertical Plate In Presence Of Hall Current, <i>ARPJ Journal of Engineering and Applied Sciences</i>, Vol. 11, No. 23, pp. 14008 – 14013, 2016. 6. G. Jitthender Reddy, R. Srinivasa Raju, J. Anand Rao, Thermal Diffusion and Diffusion Thermo impact on Chemical reacted MHD Free Convection from an Impulsively Started Infinite Vertical Plate embedded in a Porous Medium using FEM, <i>Journal of Porous Media</i>, 2016 (In press). 7. Ramya Dodda, R. Srinivasa Raju, J.
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	MHD Boundary Layer Partial Slip Flow Of Nanofluids Over A Nonlinear Stretching Sheet With Suction/Injection, <i>Journal Of Nanofluids</i>, 2016 (In press). ☺ S. V. Sailaja, B. Shanker, R. Srinivasa Raju, Double Diffusive Effects On MHD Mixed Convection Casson Fluid Flow Towards A Vertically Inclined Plate Filled In Porous Medium In Presence Of Biot Number: A Finite Element Technique, <i>Journal of Nanofluids</i>, 2016 (In press). ☺ G. Jitthender Reddy, R. Srinivasa Raju, J. Anand Rao, Rama Subba Reddy Gorla, Unsteady MHD Couette Flow of Water at 4°C in a Rotating System in Presence of Heat Transfer with Ramped Temperature via Finite Element Method, <i>International Journal of Applied Mechanics and Engineering</i>, 2016 (In press). ☺ R. Srinivasa Raju, Influence Of Angle Of Inclination On Unsteady MHD Casson Fluid Flow Past A Vertical Surface Filled By Porous Medium In Presence Of	Anand Rao, Numerical Simulation Of MHD Boundary Layer Partial Slip Flow Of Nanofluids Over A Nonlinear Stretching Sheet With Suction/Injection, <i>Journal Of Nanofluids</i>, 2016 (In press). 8. S. V. Sailaja, B. Shanker, R. Srinivasa Raju, Double Diffusive Effects On MHD Mixed Convection Casson Fluid Flow Towards A Vertically Inclined Plate Filled In Porous Medium In Presence Of Biot Number: A Finite Element Technique, <i>Journal of Nanofluids</i>, 2016 (In press). 9. G. Jitthender Reddy, R. Srinivasa Raju, J. Anand Rao, Rama Subba Reddy Gorla, Unsteady MHD Couette Flow of Water at 4°C in a Rotating System in Presence of Heat Transfer with Ramped Temperature via Finite Element Method, <i>International Journal of Applied Mechanics and Engineering</i>,
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	Constant Heat Flux, Chemical Reaction And Viscous Dissipation, <i>Journal of Nanofluids</i> , 2016 (In press).	2016 (In press). 10. R. Srinivasa Raju, Influence Of Angle Of Inclination On Unsteady MHD Casson Fluid Flow Past A Vertical Surface Filled By Porous Medium In Presence Of Constant Heat Flux, Chemical Reaction And Viscous Dissipation, <i>Journal of Nanofluids</i> , 2016 (In press).
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		