



R.G.M. College of Engineering & Technology, Nandyal (Autonomous)

DEPARTMENT OF MATHEMATICS

List of PUBLICATIONS

Date: 16-10-2021

A.Y. 2020-21

Web of Science (SCI/SCIE/ESCI):

1. M. Santhi, K.V. Suryanarayana Rao, P. Sudarsana Reddy, P. Sreedevi, Heat and mass transfer characteristics of radiative hybrid nanofluid flow over a stretching sheet with chemical reaction, **Heat Transfer, (Wiley Publisher, ESCI Journal)**. ISSN: 1523-1496. doi.org/10.1002/htj.22012.
2. B.Sivakumar Reddy, K.V.Suryanarayana Rao, Soret and Dufour effects on MHD flow of viscoelastic fluid past an infinite vertical stretching sheet, **Heat Transfer, (Wiley Publisher, ESCI Journal)**, 2020;49:2330–2343, DOI: 10.1002/htj.21723
3. P.Sudarsana Reddy, P. Sreedevi, K. V. Suryanarayana Rao, Impact of heat generation/absorption on heat and mass transfer of nanofluid over rotating disk filled with carbon nanotubes, **International Journal of Numerical Methods for Heat and Fluid Flow**, Accepted. (Emerald, SCI Expanded Journal). ISSN: 0961 - 5539. <https://doi.org/10.1108/HFF-10-2020-0621>.
4. P. Sreedevi, P. Sudarsana Reddy & K. V. Suryanarayana Rao (2021): Effect of magnetic field and radiation on heat transfer analysis of nanofluid inside a square cavity filled with silver nanoparticles: Tiwari–Das model, **Waves in Random and Complex Media**, DOI: 10.1080/17455030.2021.1918798. (Taylor & Francis Publishing, SCI – Expanded Journal).
5. P.Aparna ,K.V.suryanarayana Rao and E.Keshava Reddy: Generalized Arithmetic graphs with equal and unequal powers of Annihilator Domination Number, **COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS,(RGN Publications, ESCI Journal)** DOI:10.26713/cma.v12i1.1406.
6. P.Aparna, K.V.suryanarayana Rao and E.Keshava Reddy: The upper bounds of annihilator domination number of arithmetic graphs and $m=p_1^{\alpha_1} \cdot p_2^{\alpha_2} \cdot p_3^{\alpha_3}$ and

$m=p_1^{\alpha_1} \cdot p_2^{\alpha_2} \cdot p_3^{\alpha_3} \cdot p_4^{\alpha_4}$, ADVANCES AND APPLICATIONS IN
MATHEMATICAL SCIENCES, (MILI PUBLICATIONS)

7. D.Dastagiri Babu, S.Venkateswarlu, and E.Keshava Reddy, “ Multivariate Jeffrey fluid flow past a vertical plate through porous medium” Journal of Applied and Computational Mechanics, Vol. 6, No. 3, (2020), 605-616. (**ESCI**)
8. Dr. S. Venkateswarlu, D. Dastagiri Babu and Dr. E. Keshava Reddy, “Approximation of Casson fluid in conducting field past a plate in the presence of Dufour, radiation and chemical reaction effects”, *Journal of Mechanics of Continua and Mathematical Sciences*, Vol. 15, No. 5, pp. 1-19, 2020 (**ESCI**).
9. P. Sreedevi, P. Sudarsana Reddy, Combined influence of Brownian motion and thermophoresis on Maxwell three dimensional nanofluid flow over stretching sheet with chemical reaction and thermal radiation, **Journal of Porous Media** 23(4) 2020 pp. 327 – 340. (**SCI Journal**). ISSN: 1091 – 028X. UGC: 22387.
10. P. Sudarsana Reddy, P. Sreedevi, Impact of chemical reaction and double stratification on heat and mass transfer characteristics of nanofluid flow over porous stretching sheet with thermal radiation, **International Journal of Ambient Energy**, 2020, (**Taylor & Francis, ESCI Journal**), ISSN: 0143-0750. DOI:10.1080/01430750.2020.1712240.
11. K. Jyothi, P. Sudarsana Reddy, M. Suryanarayana Reddy, B.Prabhavathi, Impact of slip effects on unsteady Sisko nanoliquid heat and mass transfer characteristics over stretching sheet filled with gold nanoparticles, **Heat Transfer**. 49 (2020); 2103-2130. DOI: 10.1002/htj.21710. (**Wiley Publisher, ESCI Journal**). ISSN: 1523-1496.
12. P. Sreedevi, P. Sudarsana Reddy, M.A. Sheremet, Impact of homogeneous–heterogeneous reactions on heat and mass transfer flow of Au–Eg and Ag–Eg Maxwell nanofluid past a horizontal stretched cylinder, **Journal of thermal analysis and calorimetry**, **141**, 533 – 546, 2020. (**Springer Nature, SCI Journal**). ISSN: 1588 – 2926. <https://doi.org/10.1007/s10973-020-09581-3>.
13. R. Chandra Sekar Reddy, P. Sudarsana Reddy, A comparative analysis of unsteady and steady Buongiorno’s Williamson nanoliquid flow over a wedge with slip effects, **Chinese Journal of Chemical Engineering**, Vol.28 (7), 1767-1777, 2020. DOI: 10.1016/j.cjche.2020.04.016. (**Elsevier, SCI Journal**), ISSN: 1004 – 9541.

14. P. Sreedevi, P. Sudarsana Reddy, A.J. Chamkha, Heat and mass transfer analysis of unsteady hybrid nanofluid flow over a stretching sheet with thermal radiation, **SN Applied Sciences**, 2:1222, 2020. (**Springer Nature, ESCI Journal**). **ISSN: 2523-3971**. DOI: 10.1007/s42452-020-3011-x
15. P. Sudarsana Reddy, P. Sreedevi, MHD boundary layer heat and mass transfer flow of nanofluid through porous media over inclined plate with chemical reaction, **Multidiscipline Modeling in Materials and Structures**, In Press, 2020, (**Emerald Publisher, ESCI Journal**). DOI: 10.1108/MMMS-03-2020-0044. **ISSN: 1573-6105**.
16. P. Sreedevi, P. Sudarsana Reddy, Heat and mass transfer analysis of MWCNT-kerosene nanofluid flow over a wedge with thermal radiation, In Press, **Heat Transfer**. (2020). **DOI:10.1002/htj.21892**. (**Wiley Publisher, ESCI Journal**). **ISSN: 1523-1496**.
17. P. Sudarsana Reddy, P. Sreedevi, Buongiorno's model nanofluid natural convection inside a square cavity with thermal radiation, **Chinese Journal of Physics**, In Press, 2020, **DOI: 10.1016/j.cjph.2020.08.016**. (**SCIE Journal, Elsevier**). **ISSN: 0577-9073**.
18. P. Sudarsana Reddy, P. Sreedevi, Effect of thermal radiation and volume fraction on carbon nanotubes based nanofluid flow inside a square chamber, **Alexandria Engineering Journal**, In Press, (**SCI E, Elsevier Journal**). **ISSN: 1110-0168**. <https://doi.org/10.1016/j.aej.2020.11.029>.
19. P. Sudarsana Reddy, P. Sreedevi, K. V. Suryanarayana Rao, Impact of heat generation/absorption on heat and mass transfer of nanofluid over rotating disk filled with carbon nanotubes, **International Journal of Numerical Methods for Heat and Fluid Flow**, In Press. (**Emerald, SCI-Expanded Journal**). **ISSN: 0961 - 5539**.
20. M. Santhi, K.V. Suryanarayana Rao, P. Sudarsana Reddy, P. Sreedevi, Heat and mass transfer characteristics of radiative hybrid nanofluid flow over a stretching sheet with chemical reaction, **Heat Transfer**. In press. (**Wiley Publisher, ESCI Journal**). **ISSN: 1523-1496**. doi.org/10.1002/htj.22012.
21. P. Sudarsana Reddy, P. Sreedevi, Entropy generation and heat transfer analysis of magnetic hybrid nanofluid inside a square cavity with thermal radiation, **European Journal of Physical Plus**, 2021, 136:39 (**Springer Nature, SCI-Expanded Journal**). <https://doi.org/10.1140/epjp/s13360-020-01025-z>.

22. P. Sudarsana Reddy, P. Sreedevi, Effect of zero mass flux condition on heat and mass transfer analysis of nanofluid flow inside a cavity with magnetic field, **European Journal of Physical Plus**, 136 : 102, 2021. (**Springer Nature, SCI-Expanded Journal**). DOI: 10.1140/epjp/s13360-021-01095-7.
23. P. Sudarsana Reddy, P. Sreedevi, Heat and mass transfer analysis of nanofluid flow over swirling cylinder with Cattaneo–Christov heat flux, **Journal of thermal analysis and calorimetry**, (**Springer Nature, SCI-Expanded Journal**). DOI :10.1007/s10973-021-10586-9.
24. P. Sudarsana Reddy, P. Sreedevi, Flow and heat transfer analysis of carbon nanotubes based nanofluid flow inside a cavity withmodified Fourier heat flux, **Physica Scripta Vol. 96, Number 5 (2021) 055215, (IOP Publishing, SCI-Expanded Journal)** <https://doi.org/10.1088/1402-4896/abe90f>
25. P. Sreedevi, P. Sudarsana Reddy & K. V. Suryanarayana Rao (2021): Effect of magnetic field and radiation on heat transfer analysis of nanofluid inside a square cavity filled with silver nanoparticles: Tiwari–Das model, **Waves in Random and Complex Media**, DOI: 10.1080/17455030.2021.1918798. (**Taylor & Francis Publishing, SCI – Expanded Journal**).
26. P. Sreedevi, P. Sudarsana Reddy, Impact of convective boundary condition on heat and mass transfer of nanofluid flow over a thin needle filled with carbon nanotubes, **Journal of Nanofluids 9**, pp. 282 – 292, 2020. (**A S Publishers, ESCI Journal**), **ISSN: 2169-432X**.
27. P. Sreedevi, P. Sudarsana Reddy, Entropy generation and heat transfer analysis of alumina and carbon nanotubes based hybrid nanofluid inside a cavity, **Physica Scripta 96 (2021) 085210 (IOP Publishing, SCI-Expanded Journal)**.
28. P. Sreedevi, P. Sudarsana Reddy, **Effect of magnetic field and thermal radiation on natural convection in a square cavity filled with TiO₂ nanoparticles**, **Alexandria Engineering Journal**, Accepted, 2021. (**SCI E, Elsevier Journal**). **ISSN: 1110-0168**. <https://doi.org/10.1016/j.aej.2021.06.055>.
29. **P. Sreedevi**, P. Sudarsana Reddy (2021): Williamson hybrid nanofluid flow over swirling cylinder with Cattaneo – Christov heat flux and gyrotactic microorganism, **Waves in**

Random and Complex Media, DOI: 10.1080/17455030.2021.1918798. (**Taylor & Francis Publishing, SCI – Expanded Journal**)

30. P. Sreedevi, P. Sudarsana Reddy, Combined influence of Brownian motion and thermophoresis on Maxwell three dimensional nanofluid flow over stretching sheet with chemical reaction and thermal radiation, **Journal of Porous Media** 23(4) 2020 pp. 327 – 340. (**SCI Journal**). **ISSN: 1091 – 028X. UGC: 22387.**
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33. P. Sreedevi, P. Sudarsana Reddy, A.J. Chamkha, Heat and mass transfer analysis of unsteady hybrid nanofluid flow over a stretching sheet with thermal radiation, **SN Applied Sciences**, 2:1222, 2020. (**Springer Nature, ESCI Journal**). **ISSN: 2523-3971.** DOI: 10.1007/s42452-020-3011-x.
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37. P. Sudarsana Reddy, P. Sreedevi, Effect of thermal radiation and volume fraction on carbon nanotubes based nanofluid flow inside a square chamber, **Alexandria**

Engineering Journal, In Press, (SCI E, Elsevier Journal). ISSN: 1110-0168.
<https://doi.org/10.1016/j.aej.2020.11.029>.

38. P. Sudarsana Reddy, P. Sreedevi, K. V. Suryanarayana Rao, Impact of heat generation/absorption on heat and mass transfer of nanofluid over rotating disk filled with carbon nanotubes, **International Journal of Numerical Methods for Heat and Fluid Flow**, In Press. (Emerald, SCI-Expanded Journal). ISSN: 0961 - 5539.
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50. D.Dastagiri Babu, Dr S. Venkateswarlu and Dr E. Keshava Reddy published a paper on "Multivariate Jeffrey fluid flow past a vertical plate through a porous medium" Journal of applied and computational Mechanics, Vol. 6(3), pp.605-616, 2020. ISSN No: 2383-4536. (ESCI Journal)
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52. K.Jyothi, P.Sudarsana Reddy, M.Suryanarayana Reddy, B.Prabhavathi, "Impact of slip effects on unsteady Sisko nanoliquid heat and mass transfer characteristics over stretching sheet filled with gold nanoparticles. Heat Transfer ,(2020)1–28.