

Faculty research publications during the last five years

| Sl.No | Title of paper | Name of the author/s | Name of journal | Year of publication | ISSN number | Link to the recognition in UGC enlistment of the Journal | | |
|-------|--|--|---|---------------------|-------------|---|---|-------------------------------|
| | | | | | | Link to website of the Journal | Link to article/paper /abstract of the article | Is it listed in UGC Care list |
| SCI | | | | | | | | |
| 1 | Study of Radial Vibrations in a Fluid-Filled Poroelastic Cylindrical Bore Saturated with Two Immiscible Fluids | Sandhyarani B, Malla Reddy P | ZAMM-Journal of Mathematics and Mechanics | 2022-2023 | 1521-4001 | https://onlinelibrary.wiley.com/journal/15214001 | https://onlinelibrary.wiley.com/doi/abs/10.1002/zamm.202100547 | YES{SCIE} |
| 2 | Uniformly convergent computational method for singularly perturbed time delayed parabolic differential-difference equations” | Jugal Mohapatra, S. Priyadarshana & Narahari Raji Reddy | <i>Engineering Computations,</i> | 2022-23 | 0264-4401 | https://www.ingentaconnect.com/j;jsessionid=27n39m11bmt22.x-ic-live-03 | https://doi.org/10.1108/EC-06-2022-0396 | Yes (SCIE) |
| 3 | Study of Torsional Vibrations in Poroelastic Dissipative Thick-Walled Hollow Cylinder in the Presence of an Initial Stress | Sandhyarani B, Balu Ch, Ramesh M, Malla Reddy P | Special Topics and Reviews in Porous Media- An International Journal, | 2019-20 | 2151-4798 | https://www.begellhouse.com/journals/special-topics-and-reviews-in-porous-media.html | https://www.dl.begellhouse.com/journals/3d21681c18f5b5e7,7ae4e3cf048c7ebc,1f32388627620590.html | (SCIE)YES |
| 4 | Effect of Nonlinear Thermal Radiation on MHD Stagnation Point Flow of Williamson Fluid Induced by Nonlinear Stretching Sheet in the Presence of Non Uniform Heat Generation/Absorption | Sandhyarani B, Monica M, Anand Rao J, | Journal of Nanofluids | 2019-20 | 2169-4338 | http://www.aps.com/ion/inst-auth_jon.htm | https://www.ingentaconnect.com/content/asp/ion/2019/00000008/00000007/art00015 | (ESCI)YES |

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| 5 | Study of Radial Vibrations in an Infinitely Long Fluid-Filled Transversely Isotropic Thick-Walled Hollow Composite Poroelastic Cylinders | Sandhyarani B, Anand Rao J, Malla Reddy P | Journal of Theoretical and Applied Mechanics | 2018-19 | 1314-8710 | https://itambg.e.u/ | https://ui.adsabs.harvard.edu/abs/2018JTAM...48d..31B/abstract | YES |
| SCOPUS | | | | | | | | |
| 6 | A Comparative study on some semi-analytical methods for the solutions of fractional partial integro-differential equations | Jugal Mohapatra, Abhilipsa Panda & Narahari Raji Reddy | <i>Fractional Differential Calculus</i> | 2022-23 | 1847-9677 | https://fdc.ele-math.com/volume/13 | dx.doi.org/10.7153/fdc-2022-12-14 | Yes (Scopus) |
| 7 | robust numerical scheme for singularly perturbed delay parabolic initial-boundary-value problems involving mixed space shifts | Narahari Raji Reddy & Jugal Mohapatra | <i>Computational Methods for Differential Equations</i> | 2022-23 | 2345-3982 | https://cmde.ta.brizu.ac.ir/?action=press&page=5&max_rows=25 | 10.22034/CMDE.2022.50833.2109 | Yes (Scopus) |
| 8 | A Comparative Study on the Solutions of 4th Order Differential Equations With Boundary Conditions | Dr.S.Vishwa Prasad Rao | Communications in Mathematics and Applications | 01-08-2022 | 0975-8607 | https://www.rgnpublications.com/journals/index.php/cma/index | https://www.rgnpublications.com/journals/index.php/cma/article/view/2247 | |
| 9 | A Comparative study on the numerical solution for singularly perturbed Volterra integro-differential equations | Abhilipsa Panda, Jugal Mohapatra & Narahari Raji Reddy | <i>Computational Mathematics and Modeling</i> | 2021-22 | 1573-837X | https://link.springer.com/ | https://link.springer.com/article/10.1007/s10598-021-09536-9 | Yes (Scopus) |
| 10 | Axially Symmetric Vibrations of a Liquid-Filled Poroelastic Thin Cylinder Saturated with Two Immiscible Liquids Surrounded by a Liquid | Sandhyarani B, Anand Rao J, Malla Reddy P | Journal of Solid Mechanics | 2019 | 2008-7683 | https://jsm.arak.iau.ir/ | https://jsm.arak.iau.ir/article_665907_6d0b524ef345a1efe855262d6a4cb71b.pdf | (Scopus)YES |

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|----|--|------------------------|---|--------|------------------|---|---|--|
| 11 | Designing Of Modeling and Applications in Typical Engineering Process | Dr.S.Vishwa Prasad Rao | International Journal of Recent Technology and Engineering | Jul-19 | <u>2277-3878</u> | http://ijrte.org/ | https://r.search.yahoo.com/_ylt=Awr1SYydCi5luJIeojE7HAX.;_ylu=Y29sbwNzZzMEcG9zAzEEdnRpZAMEc2VjA3Ny/RV=2/R E=1697544862/R O=10/RU=https%3a%2f%2fwww.ijrte.org%2fwp-content%2fuploads%2fpapers%2f8i2%2fB2665078219.pdf/RK=2/RS=mtZF_Qj.xyH_YQkv7kVqSykxkZ8- | |
| 12 | Solution Analysis of A 3rd Order Initial Value Problem, pp 3784 –3789 | Dr.S.Vishwa Prasad Rao | International Journal of Recent Technology and Engineering | Jul-19 | <u>2277-3878</u> | http://ijrte.org/ | https://www.ijrte.org/portfolio-item/b3484078219/ | |
| 13 | Mathematical Model of a Competitive Species Pair of Semi-Monod Type and Its Stability Analysis, pp 1693-1698 | Dr.S.Vishwa Prasad Rao | Journal of Advanced Research in Dynamical & Control Systems | 2019 | <u>1943-023X</u> | http://www.jarcds.org/ | https://www.jarcds.org/abstract.php?id=1639 | |