



Srishyla Education Trust ®

GM UNIVERSITY

(Established under the Karnataka State Act No. 19 of 2023)

Post Box No. 4, PB Road, Davanagere - 577006

GMU Publications

Sl. No	Name	Title of the Paper
1.	Dr. Harsha H M	Experimental Analysis of Fracture Behaviour in ESET Jute-Natural Fiber Hybrid Composites under Eccentric Tension
2.	Dr. Mallikarjuna Veerabhadrapa Bidari	Experimental and numerical investigation of influence of flat conical inserts with different geometries in tubular heat exchanger
3.	Dr. Shanmukha B	Some results on Kenmotsu space forms
4.	Dr. Madhukesh J K	On the thermal performance of a three dimensional cross-ternary hybrid nanofluid over a wedge using a Bayesian regularization neural network approach
5.	Dr. Madhukesh J K	Heat transfer characteristics in a non-Newtonian (Williamson) hybrid nanofluid with Hall and convective boundary effects
6.	Dr. Madhukesh J K	Computational role of homogeneous– heterogeneous chemical reactions and a mixed convective ternary hybrid nanofluid in a vertical porous microchannel
7.	Dr. Madhukesh J K	Computational analysis of water-based silver, copper, and alumina hybrid nanoparticles over a stretchable sheet embedded in a porous medium with thermophoretic particle deposition effects
8.	Dr. Madhukesh J K	Computational Role of Autocatalytic Chemical Reaction in the Dynamics of a Ternary Hybrid Nanofluid Past a Rotating Stretching Surface
9.	Dr. T M Pradeep	Fabrication and Parametric Degradation Analysis on the Silicon Hetero junction Solar Cell under 60 Co Gamma Irradiation
10.	Dr. Suprith P G	Anti-Jamming and Power Minimization Interference Nulling in Uplink MIMO-NOMA Technique
11.	Dr. C. V. Srinivasa	Influence of suspended cenospheres on the mechanical characteristics and wear loss of natural fiber-reinforced hybrid composites: implications for biomedical applications and sustainable material management
12.	Dr. Madhukesh J K	Impact of radiation, melting, and chemical reaction on magnetohydrodynamics nanoparticle



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		aggregation flow across parallel plates
13.	Dr. Madhukesh J K	Irreversibility analysis of cross-flow in Eyring–Powell nanofluid over a permeable deformable sheet with Lorentz forces
14.	Dr. Madhukesh J K	Stability scrutinization of a non-Newtonian (Williamson) ternary hybrid nanofluid past a stretching/shrinking sheet
15.	Dr. Madhukesh J K	Neural network algorithms of a curved riga sensor in a ternary hybrid nanofluid with chemical reaction and Arrhenius kinetics
16.	Dr. T M Pradeep	MgO nanofiller reinforced biodegradable, flexible, tunable energy gap HPMC polymer composites for eco-friendly electronic applications
17.	Dr. Madhukesh J K	Numerical study of hybrid nanofluid and thermal transport in sun-powered energy ship within the application of parabolic trough solar collectors
18.	Dr. Madhukesh J K	Numerical simulation of two-phase flow towards a stagnation point in the Jeffrey nanofluid across a porous deformable disc with zero mass flux condition and Lorentz forces
19.	Dr. Madhukesh J K	Implementation of stacking regressor model on the flow induced by TiO ₂ -H ₂ O and Ti ₆ Al ₄ V-H ₂ O nanofluid with waste discharge concentration
20.	Dr. C. V. Srinivasa	Extraction and characterization of hemicellulose and lignin contents of areca fiber
21.	Dr. K N Bharath	Review of Image Processing Methods for Surface and Tool Condition Assessments in Machining
22.	Dr. Vijaykumar D J	Nano-crafting copper oxide: A novel electrode fabrication for enhanced electrochemical tryptophan detection and efficient photodegradation of nile blue dye
23.	Dr. Madhukesh J K	Influence of pollutant dispersion on nanofluid flowing across a stretched disc-cone device
24.	Dr. Madhukesh J K	Exploring the role of aligned magnetic field and nanofluids with pollutants in mass and thermal transfer on exponentially stretched surface
25.	Dr. Madhukesh J K	Computational role of the heat transfer phenomenon in the reactive dynamics of catalytic nanolubricant flow past a horizontal microchannel
26.	Dr. Madhukesh J K	Exact solutions for nanoparticle aggregation and porous medium effects over a stretching surface
27.	Dr. Vijaykumar D J	Photophysical characterization and theoretical analysis of brilliant sulfaflavine dye: Experimental



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		and DFT approaches
28.	Dr. Madhukesh J K	Endothermic and exothermic reactions and stagnation point nanofluid flow over a porous stretched surface with a revised Buongiorno model
29.	Dr. Shivakumar S	Analysis and Monitoring of Production Data in Manufacturing Based on Cloud Technology
30.	Dr. Hanumanthraju R K	Non-Invasive Detection of Hydrogen Peroxide Adulteration in Milk using E-Tongue Analysis
31.	Dr. Madhukesh J K	Magnetized nanofluid flowing across an inclined microchannel with heat source/sink and temperature jump: Corcione's model aspects
32.	Dr. Vismitha S P	Synthesis, Structural Characterization, and Photocatalytic Application of ZnS Quantum Dots
33.	Dr. Shivakumar S	Enhancing the Hygrothermal Ageing Performance of Vinylester/Glass Composites through Nanoclay Incorporation
34.	Dr. Madhukesh J K	Computational analysis of ternary hybrid nanofluids mass transport and Bodewadt flow across a rotating disk driven by waste discharge concentration
35.	Dr. Shanmukha B	Dynamical analysis of hearing loss due to mumps virus with Caputo fractional derivative
36.	Dr. Jagadeswari Kurra	Male consumer preferences and satisfaction towards cosmetics: A comprehensive study
37.	Dr. Hareesha N	Electrochemical analysis of L-Tyrosine sensor using ball-milled duplex stainless steel alloy powder.
38.	Dr. Hareesha N	Synthesis, characterization and geometrical optimization of azo dyes derived from the substituted pyrazole and benzothiazole amines coupled with 3-N, N-diethyl amino phenol.
39.	Dr. Madhukesh J K	Scrutinization of nanoparticle aggregation in the reactive dynamics of heat transport phenomenon with buoyancy forces.
40.	Dr. Madhukesh J K	Repercussions of Nanofluid Flow and Internal Heat Generation Radiation on a Spiral Porous Fin with Variable Thermal Conductivity.
41.	Dr. Santhosh B M, Dr. Hareesha N and Dr. H P Shivarudrappa	Recent Developments on Electrochemical Sensors for Neurotransmitters Using Composite Transition Metal Oxide Nanoparticles.



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42.	Dr. Santhosh B M	Saddle and nodal point aspects on stagnation point MHD Casson nanofluid flow over Howarth's wavy circular cylinder with pollutant concentration with stochastic intelligence approach.
43.	Dr.Suprith P G	Channel aware power allocation and diversity gain selection for Mimo Noma system
44.	Dr.Srinivasa C V	Surface Modification of Sustainable Bio-Derived Areca Sheath Fibers for Enhanced Mechanical and Thermal Properties in Epoxy-Based Biocomposites: Spectroscopic, Thermogravimetric, and Crystallographic Insights
45.	Dr.Poojitha B Sridhra Shetty	Sustainable synthesis of iron-doped manganese oxide nanoparticles for effective photo-accelerated detoxification of tetracycline
46.	Dr. Madhukesh J K	Effectiveness of kerosene/water conveying ternary (Cu-SiO ₂ -Al ₂ O ₃) nanoparticles flowing in vertical cylinder subjected to a melting phenomenon
47.	Dr.Poojitha B Sridhra Shetty	Unveiling the Wound Healing and Hypoglycemic Effects of Garcinia cambogia (L.) Roxb. in Streptozotocin-Induced Diabetes in Albino Wistar Rats
48.	Dr Yuvarajgouda Patil	Unlocking the corrosion inhibition potential of expired chlorzoxazone on mild steel in acidic media: A synergistic approach with electrochemical, surface and computational insights.
49.	Dr. Madhukesh J K	MHD effects of oriented magnetic field on radiative Casson nanofluid flow over a stretchable surface.
50.	Dr. Madhukesh J K	Thermal transport analysis of ternary hybrid nanofluid flow over a vertical cylinder with thermal radiation and chemical reaction.
51.	Dr. Hareesha N and Dr. Vijayakumara D J	Honey-Mediated CeO ₂ Nanoparticles: A Cost-Effective Approach for Electrochemical Biosensing of Human Serum Albumin.
52.	Dr. Hareesha N	One Step Self Assembled Bio-waste Carbon Material Derived from Maize Cob Doped ZnO/Co Composite Electrode Material for Battery Type and High Energy Density Supercapacitor.
53.	Dr. Madhukesh J K	Influence of waste discharge concentration and quadratic thermal radiation over oblique stagnation point Boger hybrid nanofluid flow across a cylinder.



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54.	Dr. Madhukesh J K	Combined effects of thermal radiation and thermophoretic particle deposition in stagnation point flow over Howarth's wavy porous circular cylinder.
55.	Dr. Madhukesh J K	Triple Diffusive Convection in a Fluid Layer Under an AC Electric Field.
56.	Dr Yuvarajgouda Patil	Development of m-zirconium/halloysite nanoclay composite modified glassy carbon electrode for electrochemical detection of metaxalone in biological and environmental samples.
57.	Dr Yuvarajgouda Patil	Experimental investigation on the role of Bi ³⁺ composition in structural, elastic, and radiation shielding properties of multifunctional cobalt-nickel nano-ferrites
58.	Dr.Prakash K K	Preliminary Phytochemistry and antibacterial activity of Ipomoea fistulosa
59.	Dr.Prakash K K	Health Risk Assessment of Variable Airborne Bacterial Occurrences at Different Occupational Sites in Davangere City, India
60.	Dr. Swaroop K	Tuning of optical properties of multifunctional silk fibroin films patterned by silver nanoparticles (Elsevier)
61.	Dr. S. Neelambike and Dr. B.K. Varun	A Weight-Based Clustering Algorithm is Used by Military Vehicles for VANET Communication
62.	Dr.Yuvarajgouda Patil	Halonanoclay-carbon paste composite sustainable electrode for electrochemical oxidation and determination of tryptophan
63.	Dr.Prakash K K	Graphite-Polyaniline Nanocomposites For Biofuel Cells: A Cogent Review
64.	Dr. Bharath K N	Comprehensive Characterization of Raw and Oxalic Acid Treated Ripen Cellulosic Biofiber from Areca Catechu Inflorescence as Substitute for Harmful Synthetic Products
65.	Dr. Shivakumar S	Study on Machinability Issues of Hard to Machining Inconel 718 - A Review
66.	Dr. Chaitra S. N.	Optimal Sink Node Placement and Routing Protocol Evaluation for 6LoWPAN Networks in IoT
67.	Swathi D Mahindrakar	A Deep Learning Approach to Sentiment Analysis of Customer Feedback for Enhanced Business Intelligence
68.	Dr. Hanumesh B M, Dr. Harish B	Evaluating the Optimal Alccofine-1203 Replacement Ratio in M20 Grade Concrete



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69.	Dr. Shweta Marigoudar	SmartHeart: A Cloud and Machine Learning Framework for Early Cardiovascular Disease Prediction
70.	Dr. Poojitha B. Sridhara Setty	Cerium oxide nanoparticles prepared through Bio-combustion using Ficus carica as effective antioxidant, anticancer and dye degrading agent
71.	Dr. Poojitha B. Sridhara Setty	Deciphering highly potent natural abscisic acid agonists for binding to pyrabactin resistance 1 receptor through computational approaches
72.	Dr. Madhukesh J K	Analyzing heat and mass transfer of nanofluid flow on a stenosed artery applying endo-exothermic chemical reaction and bioconvection using a model-agnostic meta-learner technique: A numerical approach (Elsevier)
73.	Dr. Madhukesh J K	Thermal analysis of Boger nanofluid across a spinning disc
74.	Dr. B.N. Hanumagowda	Features of MHD slip velocity on secant curved porous circular plates with couple-stress fluid (Elsevier)
75.	Dr. Madhukesh J K	Crank Nicolson and response surface methodology-based simulation to analyze the thermophoretic particle deposition of nanofluids over an infinite porous plate under mixed convection: a sensitivity analysis (Springer)
76.	Dr. Madhukesh J K	Crank–Nicolson finite-difference method for analysing pollutant discharge in nanofluid mixed convection systems (Springer)
77.	Dr. Madhukesh J K	Thermal investigation of Tiwari–Das and Xue nanofluid model on space and thermal-dependent heat source/sink over a spinning disk: A numerical study (Taylor and Francis)
78.	Dr. Madhukesh J K	Use of wavelet-based neural networks for optimization of heat and mass transfer radiative hybrid nanofluid over a nonlinear stretching surface (Sage Publications)
79.	Dr. Madhukesh J K	ANOVA-based Taguchi approach to optimise the rate of heat transport for the magnetised nanofluid across an exponential surface (Elsevier)
80.	Dr. Madhukesh J K	Numerical analysis of heat and mass transfer in off-centered stagnation point Casson fluid flow over a rotating disc with thermophoretic particle deposition and artificial neural network-based optimization (Elsevier)
81.	Dr. Vismitha S Patil	Optical Sensing and Photocatalytic Dye Degradation Using Blue-Luminescent Graphene Quantum Dots (Wiley)



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82.	Dr. Shweta Marigoudar	AI-Enabled Transformation of Online Learning through Personalization
83.	Dr. Poojitha B. S.	Photo-accelerated detoxification of Norfloxacin and electrochemical sensing application of engineered deep orange-red emitting samarium doped SrCeO ₃ nanostructures
84.	Dr. Poojitha B. S.	Cerium oxide nanoparticles prepared through Bio-combustion using Ficus carica as effective antioxidant, anticancer and dye degrading agent
85.	Dr. Poojitha B. S.	New pyrazole-based Schiff base ligand and its Ni(ii) and Co(iii) complexes as antibacterial and anticancer agents: Synthesis, characterization, and molecular docking studies
86.	Dr. Bharath K N	Modelling cum optimization of fiber length, content and mechanical properties of oxalic acid modified Areca Catechu inflorescence fiber reinforced biocomposites: fabricated bio-product for packaging applications (Springer)
87.	Dr. Poojitha B. S.	Deciphering highly potent natural abscisic acid agonists for binding to pyrabactin resistance 1 receptor through computational approaches
88.	Dr. Poojitha B. S.	Bismuth nickelate nanoparticles synthesized using Curcuma longa rhizome extract as biocidal and photocatalytic agents
89.	Dr. J Praveen	Quantum convolutional neural network-based hybrid network for remote sensing image classification (Elsevier)
90.	Dr. T.M. Pradeep	Structural, elastic, luminescence, electrical and first principles analysis of green synthesized β -Ga ₂ O ₃ nanoparticles
91.	Dr. T.M. Pradeep	Green synthesised ZnO/CuO nanocomposites for energy storage, environmental remediation and optoelectronic applications
92.	Raghu S	Thermal and mass transfer prediction of Casson based nanofluid flow over an exponential stretching sheet using a Multi-Task Neural Network approach
93.	Chethan Chandra S. Basavaraddi	Federated Reinforcement Learning with Linear Programming for Improving UAV-Enabled Smart Agriculture
94.	Manjunatha T	Integrative Ethnopharmacological and Mechanistic Evaluation of Gnidia glauca Alkaloids: Multi-Target Anticancer Potential Correlated with Traditional Use



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95.	Jagadeshwari K	Drivers Of Employee Engagement And Retention In Hubli's Organised Supermarkets
96.	Girish Bolakatti	Neuroprotective Effects of Syzygium cumini Leaf Ethanol Extract in Cisplatin-Induced Chemotherapy-related Cognitive Impairment
97.	Girish Bolakatti	Phytochemical Analysis and Evaluation of Moringa oleifera Leaf Extract against Anoxia and Cold-Induced Stress: In silico, In vivo, and Histopathological Studies
98.	Bhavana G Mahadevappa	Carbon-Based Electrochemical Sensors and Voltammetry for the Detection of Biologically Active Molecules: Fundamentals, Theoretical Aspects, and Emerging Perspectives
99.	Yuvarajgouda N Patil	Fabrication of CO_3O_4 nanoparticles on glassy carbon electrode for ultrasensitive sensing of sulfinpyrazone
100.	Yuvarajgouda N Patil	Development of m-zirconium/halloysite nanoclay composite modified glassy carbon electrode for electrochemical detection of metaxalone in biological and environmental samples
101.	Yuvarajgouda N Patil	Tailoring nanostructured Zr-doped ZnO and β -cyclodextrin on a carbon sensor for ultra-sensitive electrochemical detection of vitamin B6-pyridoxine hydrochloride
102.	Yuvarajgouda N Patil	Synergistic influence of ZnO nanofillers and sodium alginate on ionic transport in PVA/NaCMC polymer electrolytes for primary battery systems
103.	Kavya G	Hybrid Radiomics and Deep Learning for Multi-Parametric MRI-Based Classification of Benign and Malignant Breast Tumors: A Multi-Institutional Study
104.	Dr. Madhukesh J K	Optimization of Blasius Rayleigh Stokes flow of aggregated nanoliquid past a semi-infinite plate: An LMB optimized neural network technique
105.	Dr. B.N. Hanumagowda	A comprehensive investigation of squeeze film lubrication in porous elliptical plates: Analyzing the influences of magneto-hydrodynamics, couple stress and slip velocity