



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. Suprith P G	Anti-Jamming and Power Minimization Interference Nulling in Uplink MIMO-NOMA Technique
3.	Manjunatha T	Integrative Ethnopharmacological and Mechanistic Evaluation of Gnidia glauca Alkaloids: Multi-Target Anticancer Potential Correlated with Traditional Use
4.	Girish Bolakatti	Phytochemical Analysis and Evaluation of Moringa oleifera Leaf Extract against Anoxia and Cold-Induced Stress: In silico, In vivo, and Histopathological Studies
5.	Yuvarajgouda N Patil	Fabrication of Co_3O_4 nanoparticles on glassy carbon electrode for ultrasensitive sensing of sulfinpyrazone
6.	Yuvarajgouda N Patil	Synergistic influence of ZnO nanofillers and sodium alginate on ionic transport in PVA/NaCMC polymer electrolytes for primary battery systems
7.	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
8.	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
9.	Dr. Madhukesh J K	Impact of radiation, melting, and chemical reaction on magnetohydrodynamics nanoparticle aggregation flow across parallel plates
10.	Dr. Madhukesh J K	Irreversibility analysis of cross-flow in Eyring–Powell nanofluid over a permeable deformable sheet with Lorentz forces
11.	Dr. Madhukesh J K	Stability scrutinization of a non-Newtonian (Williamson) ternary hybrid nanofluid past a stretching/shrinking sheet
12.	Dr. Madhukesh J K	Neural network algorithms of a curved riga sensor in a ternary hybrid nanofluid with chemical reaction and Arrhenius kinetics
13.	Dr. T M Pradeep	MgO nanofiller reinforced biodegradable, flexible, tunable energy gap HPMC polymer composites for eco-friendly electronic applications



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14.	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
15.	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
16.	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
17.	Dr. C. V. Srinivasa	Extraction and characterization of hemicellulose and lignin contents of areca fiber
18.	Dr. K N Bharath	Review of Image Processing Methods for Surface and Tool Condition Assessments in Machining
19.	Dr. Vijaykumar D J	Nano-crafting copper oxide: A novel electrode fabrication for enhanced electrochemical tryptophan detection and efficient photodegradation of nile blue dye
20.	Dr. Madhukesh J K	Influence of pollutant dispersion on nanofluid flowing across a stretched disc-cone device
21.	Dr. Madhukesh J K	Exploring the role of aligned magnetic field and nanofluids with pollutants in mass and thermal transfer on exponentially stretched surface
22.	Dr. Madhukesh J K	Computational role of the heat transfer phenomenon in the reactive dynamics of catalytic nanolubricant flow past a horizontal microchannel
23.	Dr. Madhukesh J K	Exact solutions for nanoparticle aggregation and porous medium effects over a stretching surface
24.	Dr. Vijaykumar D J	Photophysical characterization and theoretical analysis of brilliant sulfaflavine dye: Experimental and DFT approaches
25.	Dr. Madhukesh J K	Endothermic and exothermic reactions and stagnation point nanofluid flow over a porous stretched surface with a revised Buongiorno model
26.	Dr. Shivakumar S	Analysis and Monitoring of Production Data in Manufacturing Based on Cloud Technology
27.	Dr. Shanmukha B	Some results on Kenmotsu space forms
28.	Dr. Hanumanthraju R K	Non-Invasive Detection of Hydrogen Peroxide Adulteration in Milk using E-Tongue Analysis
29.	Dr. Madhukesh J K	Magnetized nanofluid flowing across an inclined microchannel with heat source/sink and temperature jump: Corcione's model aspects
30.	Dr. Vismitha S P	Synthesis, Structural Characterization, and Photocatalytic Application of ZnS Quantum Dots
31.	Dr. Shivakumar S	Enhancing the Hygrothermal Ageing Performance of Vinylester/Glass Composites through Nanoclay



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		Incorporation
32.	Dr. Madhukesh J K	Computational analysis of ternary hybrid nanofluids mass transport and Bodewadt flow across a rotating disk driven by waste discharge concentration
33.	Dr. Shanmukha B	Dynamical analysis of hearing loss due to mumps virus with Caputo fractional derivative
34.	Dr. Jagadeswari Kurra	Male consumer preferences and satisfaction towards cosmetics: A comprehensive study
35.	Dr. Hareesha N	Electrochemical analysis of L-Tyrosine sensor using ball-milled duplex stainless steel alloy powder.
36.	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.
37.	Dr. Madhukesh J K	Scrutinization of nanoparticle aggregation in the reactive dynamics of heat transport phenomenon with buoyancy forces.
38.	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
39.	Dr. Madhukesh J K	Repercussions of Nanofluid Flow and Internal Heat Generation Radiation on a Spiral Porous Fin with Variable Thermal Conductivity.
40.	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.
41.	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.
42.	Dr.Suprith P G	Channel aware power allocation and diversity gain selection for MIMO NOMA system
43.	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
44.	Dr.Poojitha B Sridhara Shetty	Sustainable synthesis of iron-doped manganese oxide nanoparticles for effective photo-accelerated detoxification of tetracycline
45.	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
46.	Dr.Poojitha B Sridhara Shetty	Unveiling the Wound Healing and Hypoglycemic Effects of Garcinia cambogia (L.) Roxb. in Streptozotocin-Induced Diabetes in Albino Wistar Rats



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47.	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.
48.	Dr. Madhukesh J K	MHD effects of oriented magnetic field on radiative Casson nanofluid flow over a stretchable surface.
49.	Dr. Madhukesh J K	Heat transfer characteristics in a non-Newtonian (Williamson) hybrid nanofluid with Hall and convective boundary effects
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. Vijay Kumar	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.
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	<u>Preliminary Phytochemistry and antibacterial activity of Ipomoea fistulosa</u>
59.	Dr.Prakash K K	Health Risk Assessment of Variable Airborne Bacterial Occurrences at Different Occupational Sites in Davangere City, India
60.	Dr. Madhukesh J K	Computational role of homogeneous– heterogeneous chemical reactions and a mixed convective ternary hybrid nanofluid in a vertical porous microchannel
61.	Dr. Swaroop K	Tuning of optical properties of multifunctional silk fibroin films patterned by silver nanoparticles (Elsevier)
62.	Dr. S. Neelambike and Dr. B.K.	A Weight-Based Clustering Algorithm is Used by Military Vehicles for VANET Communication



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	Varun	
63.	Dr.Yuvarajgouda Patil	Halonanoclay-carbon paste composite sustainable electrode for electrochemical oxidation and determination of tryptophan
64.	Dr.Prakash K K	Graphite-Polyaniline Nanocomposites For Biofuel Cells: A Cogent Review
65.	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
66.	Dr. Shivakumar S	Study on Machinability Issues of Hard to Machining Inconel 718 - A Review
67.	Dr. Chaitra S. N.	Optimal Sink Node Placement and Routing Protocol Evaluation for 6LoWPAN Networks in IoT
68.	Swathi D Mahindrakar	A Deep Learning Approach to Sentiment Analysis of Customer Feedback for Enhanced Business Intelligence
69.	Dr. Hanumesh B M,	Evaluating the Optimal Alccofine-1203 Replacement Ratio in M20 Grade Concrete
70.	Dr. Shweta Marigoudar	SmartHeart: A Cloud and Machine Learning Framework for Early Cardiovascular Disease Prediction
71.	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
72.	Dr. Poojitha B. Sridhara Setty	Cerium oxide nanoparticles prepared through Bio-combustion using Ficus carica as effective antioxidant, anticancer and dye degrading agent
73.	Dr. Poojitha B. Sridhara Setty	Deciphering highly potent natural abscisic acid agonists for binding to pyrabactin resistance 1 receptor through computational approaches
74.	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)
75.	Dr. Madhukesh J K	Thermal analysis of Boger nanofluid across a spinning disc
76.	Dr. B.N. Hanumagowda	Features of MHD slip velocity on secant curved porous circular plates with couple-stress fluid (Elsevier)
77.	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)
78.	Dr. Madhukesh J K	Crank–Nicolson finite-difference method for analysing pollutant discharge in nanofluid mixed convection systems (Springer)
79.	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)



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80.	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)
81.	Dr. Madhukesh J K	Computational Role of Autocatalytic Chemical Reaction in the Dynamics of a Ternary Hybrid Nanofluid Past a Rotating Stretching Surface
82.	Dr. Madhukesh J K	ANOVA-based Taguchi approach to optimise the rate of heat transport for the magnetised nanofluid across an exponential surface (Elsevier)
83.	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)
84.	Dr. Vismitha S Patil	Optical Sensing and Photocatalytic Dye Degradation Using Blue-Luminescent Graphene Quantum Dots (Wiley)
85.	Dr. Shweta Marigoudar	AI-Enabled Transformation of Online Learning through Personalization
86.	Dr. Poojitha B. S.	Photo-accelerated detoxification of Norfloxacin and electrochemical sensing application of engineered deep orange-red emitting samarium doped SrCeO ₃ nanostructures
87.	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
88.	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)
89.	Dr. T M Pradeep	Fabrication and Parametric Degradation Analysis on the Silicon Hetero junction Solar Cell under 60 Co Gamma Irradiation
90.	Dr. Poojitha B. S.	Bismuth nickelate nanoparticles synthesized using Curcuma longa rhizome extract as biocidal and photocatalytic agents
91.	Dr. J Praveen	Quantum convolutional neural network-based hybrid network for remote sensing image classification (Elsevier)
92.	Dr. T.M. Pradeep	Structural, elastic, luminescence, electrical and first principles analysis of green synthesized β -Ga ₂ O ₃ nanoparticles
93.	Dr. T.M. Pradeep	Green synthesised ZnO/CuO nanocomposites for energy storage, environmental remediation and



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		optoelectronic applications
94.	H M Harsha	Experimental analysis of fracture behavior in ESET jute-natural fiber hybrid composites under eccentric tension
95.	Mallikarjuna Veerabhadrapa Bidari	Experimental and numerical investigation of influence of flat conical inserts with different geometries in tubular heat exchanger
96.	Raghu S	Thermal and mass transfer prediction of Casson based nanofluid flow over an exponential stretching sheet using a Multi-Task Neural Network approach
97.	Chethan Chandra S. Basavaraddi	Federated Reinforcement Learning with Linear Programming for Improving UAV-Enabled Smart Agriculture
98.	Varsha Hiremath	Drivers Of Employee Engagement And Retention In Hubli's Organised Supermarkets
99.	Girish Bolakatti	Neuroprotective Effects of Syzygium cumini Leaf Ethanol Extract in Cisplatin-Induced Chemotherapy-related Cognitive Impairment
100.	Bhavana G Mahadevappa	Carbon-Based Electrochemical Sensors and Voltammetry for the Detection of Biologically Active Molecules: Fundamentals, Theoretical Aspects, and Emerging Perspectives
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.	Kavya G	Hybrid Radiomics and Deep Learning for Multi-Parametric MRI-Based Classification of Benign and Malignant Breast Tumors: A Multi-Institutional Study
103.	Dr. Madhukesh J K	Optimization of Blasius Rayleigh Stokes flow of aggregated nanoliquid past a semi-infinite plate: An LMB optimized neural network technique