



Basic Information :

Name : Elsayed Mohamed Tag Eldin
Title : Professor

Education:

Certificate	Major	University	Year
PhD			2000
Masters			1996
Bachelor			1993

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Dean	02/01/2021	Current

Researches / Publications :

- Fuzzy-Fractional Modeling of Korteweg-de Vries Equations in Gaussian-Caputo Sense: New Solutions Via Extended He-Mahgoub Algorithm
- Isolation and Characterization of Cellulose from Pomegranate (Punica granatum) Peel
- Ö [{ }] ... Nanoparticles
- Machine learning-aided modeling for predicting freshwater production of a membrane desalination system: A long-short-term memory coupled with election-based optimizer
- Effect of Grazing and Mowing on Soil Physiochemical Properties in a Semi-Arid Grassland of Northeast China
- Effect of curved anchor impellers on power consumption and hydrodynamic parameters of yield stress fluids (Bingham. Papanastasiou model) in stirred tanks
- A Review of Inductive Power Transfer: Emphasis on Performance Parameters, Compensation Topologies and Coil Design Aspects
- Thermal Radiation Effects on 2D Stagnation Point Flow of a Heated Stretchable Sheet with Variable Viscosity and MHD in a Porous Medium
- Novel waves structures and selection of unique physical problems for the nonclassical Sobolev-type equation
- Power Level Control of Nuclear Power Plants during Load Following Operation Using Fractional Order Controller Based on a Modified Algorithm
- Engineering of metal organic framework (MOF) membrane for waste water treatment: Synthesis, applications and future challenges
- Energy transmission through radiative ternary nanofluid flow with exponential heat source/sink across an inclined permeable cylinder
- Energy Bandgap and Thermal Characteristics of Non-Darcian MHD Revolving Hybridity Nanofluid
- Optimization and intelligent power management control for an autonomous hybrid wind turbine photovoltaic diesel generator with batteries
- Multi-perspective structural integrity-based computational investigations on airframe of Gyrodyne-configured multi-rotor UAV through coupled CFD and FEA approaches for various lightweight sandwich composites and alloys
- Primitive and gravity modulation of periodical heat transfer along magnetic-driven porous cone with thermal conductivity and surface heat
- Within-host delay differential model for SARS-CoV-2 kinetics with saturated antiviral responses

A Galerkin finite element-based study of MHD mixed convective of Ostwald-de Waele nanofluids in a lid-driven wavy chamber
Developing ridge estimators for the extended Poisson-Tweedie regression model: Method, simulation, and application
Effect of the Bambusa vulgaris, Gigantochloa levis, and Gigantochloa scortechinii Pulp Loading on Mechanical Properties of Recycled Paper
Parity time symmetry in two dimensional chiral optical lattice, via positive and negative refraction
Heat source/sink impact on wave oscillations of thermal and concentration boundary layer along inclined plate under lower gravitational region
Scrutiny of nanoscale heat transport with ion-slip and hall current on ternary MHD cross nanofluid over heated rotating geometry
Recent innovations in 2D magnetic materials and their potential applications in the modern era
Ab Initio Investigations of Optoelectronic and Transport Behavior of Mn and Eu Doped ZnO Nanoparticles for Optoelectronic Devices
Insights into the thermal characteristics and dynamics of stagnant blood conveying titanium oxide, alumina, and silver nanoparticles subject to Lorentz force and internal heating over a curved surface
A practical green synthesis method of Ag NPs using rosy periwinkle plant leaves for solar panel coating
Solar energy storage to chemical: Photocatalytic CO ₂ reduction over pristine metal-organic frameworks with mechanistic studies
Direct injection diesel engine characteristics fuelled with diesel, biodiesel and 1-butanol blends
Computational study of magnetized and dual stratified effects on Non-Darcy casson nanofluid flow: An activation energy analysis
Unravelling the analysis of electrical discharge machining process parameters, microstructural morphology, surface integrity, recast layer formation, and material properties: A comparative study of aluminum, brass, and Inconel 617 materials
Numerical analysis of the fractal-fractional diffusion model of ignition in the combustion process
Solar radiation and lower gravitational effects on wave oscillations in heat transfer along magnetic-driven porous cone in the presence of Joule heating
Heat transfer enhancement in engine oil based hybrid nanofluid through combustive engines: An entropy optimization approach
Thermal and Solutal Slips Impact on 3D-Biconvection Flow of Linearly Stratified Casson Nanofluid (Magnesium-Blood) Passed over a Bi-Stretching Surface in a Rotating Frame
Design and Fabrication of a Novel Corona-Shaped Metamaterial Biosensor for Cancer Cell Detection
Optimizing Technical and Economic Aspects of Off-Grid Hybrid Renewable Systems: A Case Study of Manoka Island, Cameroon
Application of constant proportional Caputo fractional derivative to thermodiffusion flow of MHD radiative Maxwell fluid under slip effect over a moving flat surface with heat and mass diffusion
An application to formable transform: Novel numerical approach to study the nonlinear oscillator
Interaction of micro-fluid structure in a pressure-driven duct flow with a nearby placed current-carrying wire: A numerical investigation
Heat transfer performance in a Hybrid nanofluid (Cu-Al ₂ O ₃ /kerosene oil) flow over a shrinking cylinder
Numerical heat featuring in Blasius/Sakiadis flow of advanced nanofluid under dissipation and convective heat condition effects
Analytical study of reaction diffusion Lengyel-Epstein system by generalized Riccati equation mapping method
An analysis of microstructural morphology, surface topography, surface integrity, recast layer, and machining performance of graphene nanosheets on Inconel 718 superalloy: Investigating the impact on EDM characteristics, surface characterizations, and optimization
Symmetry analysis for the (3+1)-dimensional generalized nonlinear evolution equation arising in the shallow water waves
Band engineering in Ti ₂ N/Ti ₃ C ₂ T _x -MXene Interface leads to enhance the performance of aqueous NH ₄ ⁺ -ion hybrid supercapacitors
Comparative investigations of Ag/H ₂ O nanofluid and Ag-CuO/H ₂ O hybrid nanofluid with Darcy-Forchheimer flow over a curved surface
Energy transfer through third grade fluid flow across an inclined stretching sheet subject to thermal radiation and Lorentz force
Approximate Controllability of Hilfer Fractional Neutral Stochastic Systems of the Sobolev-Type under Almost Sectorial Operators
Computational assessment of radiative flow of engine oil-based mono nanofluids between parallel infinite double disks

Homogeneity, metallurgical, mechanical, wear, and corrosion behavior of Ni and B4C coatings deposited on 304 stainless steels developed by microwave cladding technique
Stagnation point flow of hybrid nanofluid flow passing over a rotating sphere subjected to thermophoretic diffusion and thermal radiation
On the fractal-fractional Mittag-Leffler model of a COVID-19 and Zika Co-infection
Interaction of gyrotactic moment of microorganisms and nanoparticles for magnetized and chemically reactive shear-thinning fluid with stratification phenomenon
A fractal-fractional sex structured syphilis model with three stages of infection and loss of immunity with analysis and modeling
Change in the Structure and Mechanical Properties of Al-Mg-Si Alloys Caused by the Addition of Other Elements: A Comprehensive Review
Numerical simulation of free convective flow over vertical disk via spectral-collocation method
Study of Double Diffusivity and Heat Conducting Phenomena under the Casson Nanofluid Flowing through a Vertical Peristaltic Tube
Enhanced wound healing effects of herbal gel formulations in a rabbit model: a comparative study
Multi-criteria group decision-making based on dombi aggregation operators under p, q-quasirung orthopair fuzzy sets
Lie symmetries, bifurcation analysis, and Jacobi elliptic function solutions to the nonlinear Kodama equation
Agrobacterium Mediated Genetic Transformation of Withania coagulans (Dunal) with rol A genes and its antioxidant Potential
Flow and Heat transfer analysis of Couette and Poiseuille Flow of a hybrid nanofluid with temperaturedependent viscosity and thermal
Numerical investigation of heat source induced thermal slip effect on trihybrid nanofluid flow over a stretching surface
Pattern formations and instability waves for a Reaction. Diffusion system
A mathematical approach for modeling the blood flow containing nanoparticles by employing the Buongiorno model
Investigation of Supercapacitor Electrodes Based on MIL-101(Fe) Metal-Organic Framework: Evaluating Electrochemical Performance through Hydrothermal and Microwave-Assisted Synthesis
Inclined magnetic force impact on cross nanoliquid flowing with widening shallow and heat generating by using artificial neural network (ANN)
Analysis of magnetized micropolar fluid subjected to generalized heat-mass transfer theories
Fractional view analysis of the diffusion equations via a Natu
Numerical analysis of radiative hybrid Nanomaterial's flow across a permeable curved surface with inertial and joule heating characteristics
Exploring Propagating Soliton Solutions for the Fractional Kudryashov. Sinelshchikov Equation in a Mixture of Liquid. Gas Bubbles under the Consideration of Heat Transfer and Viscosity
Breast cancer segmentation using a hybrid AttendSeg architecture combined with a gravitational clustering optimization algorithm using mathematical modelling
Central composite design (CCD)-Response surface methodology (RSM) for modeling and simulation of MWCNT-water nanofluid inside hexagonal cavity: Application to electronic cooling
Effect of variable thermal conductivity of ternary hybrid nanofluids over a stretching sheet with convective boundary conditions and magnetic field
Significance of Koo-Kleinstreuer-Li model for thermal enhancement in nanofluid under magnetic field and thermal radiation factors using LSM
is Greenfield investment improving welfare: A quantitative analysis for Latin American and Caribbean developing countries
A comprehensive review on fractional-order optimal control problem and its solution
MHD rotating flow over a stretching surface: The role of viscosity and aggregation of nanoparticles
Investigating effects of Lorentz forces and convective heating on ternary hybrid nanofluid flow over a curved surface using homotopy analysis method
Impact of the shape and curvature of fins on a thermal energy storage unit
Case study of heat generation/absorption and activation energy in MHD hybrid nanofluid (GO-MoS2/water) flow owing to a rotating disk

The emergence of density functional theory for supercapacitors: Recent progress and advances
Fractional Order Age Dependent Covid-19 Model: An Equilibria and Quantitative Analysis with modeling
Performance evaluation of diesel engine fuelled with Chlorella Protothecoides microalgal biodiesel
Significance of radiated ternary nanofluid for thermal transport in stagnation point flow using thermal slip and dissipation function
Magneto-Bio-Convection Enhanced heat transfer in Prandtl hybrid nanofluid with inclined magnetization and microorganism migration
Role of nanolayer on the dynamics of tri-hybrid nanofluid subject to gyrotactic microorganisms and nanoparticles morphology vis two porous disks
Machine Learning Algorithms for Predicting the Water Quality Index
Exploring the charge storage mechanism in high-performance Co@MnO ₂ -based hybrid supercapacitors using Randles, Warburg and Dunn models
High gain coupled inductor SEPIC based boost inverter using extended SPWM
Temporal features of thermal flows over a rotating cylinder in a channel: Multigrid based simulations
Energy, exergy and exergoeconomic analysis of a trans-critical CO ₂ cycle powered by a single flash geothermal cycle in with/without economizer working modes
A comparative analysis of dovetail and rectangular fins with insulated tips wetted with ZnO-SAE 50 nanolubricant for energy transfer process
Review on CdS-derived photocatalysts for solar photocatalytic applications . Advances and challenges
pAtbP-EnC: Identifying Anti-tubercular Peptides using Multi-Feature Representation and Genetic Algorithm based Deep Ensemble mode
Optimizing fake news detection for Arabic context: A multitask learning approach with transformers and an enhanced Nutcracker Optimization Algorithm
Assessing the Impact of Time-Varying Optimal Vaccination and Non-Pharmaceutical Interventions on the Dynamics and Control of COVID-19: A Computational Epidemic Modeling Approach
Enhanced thermal and mass transfer of harnessing microbial mediation in electrically conducting Oldroyd-B nanofluid flow: Eukaryotes micr
Implementation of differential transform method on the squeezing flow of trigonometric non-Newtonian fluid between two heated plates
The outbreak of migratory goat's brucellosis in the Swat ecosystem of Khyber Pakhtunkhwa
Thermal transport through carbon nanotubes based nanofluid flow over a rotating cylinder with statistical analysis for heat transfer rate
Exploring the dynamics of active swimmers microorganisms with electromagnetically conducting stretching through endothermic heat generation/assimilation flow: Observational and computational study
Synthesis of Electrical Conductive Metal-Organic Frameworks for Electrochemical Applications
2D MXenes Nanosheets for Advanced Energy Conversion and Storage Devices: Recent Advances and Future Prospects
Analysis of pulsatile blood flow through elliptical multi-stenosed inclined artery influenced by body acceleration
Gravity modulation, thermal radiation and viscous dissipation impact on heat transfer and magnetic flux across gravity-driven magnetized circular cylinder
Fabrication and Characterization of weld attributes in Hot Gas welding of Alkali treated hybrid Flax Fiber and Pine Cone Fibers reinforced Poly-lactic Acid (PLA) based Biodegradable Polymer Composites: Studies on Mechanical and Morphological properties
Error analysis of zirconium and zinc oxides/kerosene oil-based hybrid nanofluid flow between rotating disks: An innovative case study
Effect of Pandanus Amaryllifolius Fibre on Physio-Mechanical, Thermal and Biodegradability of Thermoplastic Cassava Starch/Beeswax Composites
High-entropic relaxor ferroelectric perovskites ceramics with A-site modification for energy storage applications
A CFD Examination of Free Convective Flow of a Non-Newtonian Viscoplastic Fluid Using ANSYS Fluent

Trends in Structural and Magnetic Properties of Sol- Gel Routed Ca-Mg Based $\text{Ca}_{0.5}\text{Mg}_{0.5}\text{Fe}_{12}\text{Cr}_x\text{O}_{19}$ Hexaferrites by Chromium Substitution
A reliable numerical investigation of an SEIR model of measles disease dynamics with fuzzy criteria
Stability scrutinization and model development for mixed convective nonNewtonian hybrid nanomaterial flow in
A method for solving the generalized Camassa-Choi problem with the Mittag-Leffler function and temporal local derivative
Analytical analysis of the double stratification on Casson nanofluid over an exponential stretching sheet
Optimization of Chemical Treatment Process Parameters for Enhancement of Mechanical Properties of Kenaf Fiber-Reinforced Polylactic Acid
Effect of polyvinyl alcohol fiber on the mechanical properties and embodied carbon of engineered cementitious composites
Synthesis and Antimicrobial Analysis of High Surface Area Strontium-Substituted Calcium Phosphate Nanostructures for Bone Regeneration
Thermal performance of radiated annular extended surface using advanced nanomaterials influenced by various physical controlling parameters for nucleate boiling case
Fe and Rh Doping Nanoarchitectonics on Properties of $\text{Sr}_2\text{YGaX}_2\text{O}_7$ Pyrochlore Oxides with a DFT-Based Spin-Polarized Calculation for Optoelectronic and Thermoelectric Applications
Numerical simulation and analysis of the stochastic HIV/AIDS model in fractional order
The significance of ternary hybrid cross bio-nanofluid model in expanding/contracting cylinder with inclined magnetic field
Optimized Power Management Approach for Photovoltaic Systems with Hybrid Battery-Supercapacitor Storage
Significance of thermal density and viscous dissipation on heat and mass transfer of chemically reactive nanofluid flow along stretching sheet under magnetic field
Chemically reactive and thin film flow analysis of Cross nano-liquid over a moving surface
Numerical approximation of the Cauchy non-homogeneous time-fractional diffusion-wave equation with Caputo derivative using shifted Chebyshev polynomials
Optical soliton solutions for time-fractional Ginzburg. Landau equation by a modified sub-equation method
A thermal case study of three dimensional MHD rotating flow comprising of multi-wall carbon nanotubes (MWCNTs) for sustainable energy systems
Reliable Numerical Investigation of an SEIR Model of Measles Disease Dynamics with Fuzzy Criteria
Mechanical and Thermal Characterization of Coir/Hemp/Polyester Hybrid Composite for Lightweight Applications
Exergy-economic analysis of a hybrid combined supercritical Brayton cycle-organic Rankine cycle using biogas and solar PTC system as energy sources
Artificial neural network modeling of the mixed convection viscoelastic hybrid nanofluid across a circular cylinder with radiation effect
Synthesis of Electrical Conductive Metal-Organic Frameworks for Electrochemical Applications
Azimuthal quantum number dependent two dimensional atom microscopy, via atom cavity coupling
Computational assessment of MHD Carreau tri-hybrid nano-liquid flow along an elongating surface with entropy generation : A comparative study
Forecasting the Strength Characteristics of Concrete incorporating Waste Foundry Sand using advance machine algorithms including deep learning
Heat and mass transfer analysis of assisting and opposing radiative flow conveying ternary hybrid nanofluid over an exponentially stretching surface
ADVANCES IN SYSTEMS EVOLUTION THROUGH QUANTUM CORRELATIONS WITHIN ENGINEERING APPLICATIONS
COMPUTATIONAL SOLUTIONS OF FRACTIONAL ELECTRIC SYMMETRIC CIRCUITS BY SUMUDU TRANSFORMATION
Thermal pattern of nano-encapsulated PCM in a lid-driven cavity with presence of a heated body, magnetic field and limited permeability
Micro-structured fluid within a channel under static and oscillatory pressure gradients: A novel Darcy-Forchheimer flow investigation
Proposed Approach to Investigate the Current and Voltage Distributions of Isolated and Grounded Systems during Earth Fault Conditions

Unsteady magnetized flow of micropolar fluid with prescribed thermal conditions subject to different geometries
Exploration of generalized two-phase free convection magnetohydrodynamic flow of dusty tetra-hybrid Casson nanofluid between parallel microplates
The Jacobi elliptic function method and its application for the stochastic NNV system
Slip effects on 3-D spinning dualphase nanofluid flow over an exponentially stretching sheet with variable viscosity
High-performance Zn-ion hybrid supercapacitor enabled by a lightweight polyimide-based anode
Controlling the critical parameters of ultrasonication to affect the dispersion state, isolation, and chiral nematic assembly of cellulose nanocrystals
ANALYTIC SOLUTION OF ONE DIMENSIONAL FRACTIONAL GLYCOLYSIS MODEL
Chromium induced nickel oxides leads to extraordinary enhancement in the performance of aqueous hybrid supercapacitors
Deploying efficient net batch normalizations (BNs) for grading diabetic retinopathy severity levels from fundus images
Implication of electromagnetohydrodynamic and heat transfer analysis in nanomaterial flow over a stretched surface: Applications in solar energy
Combine influence of charged particles and dust particles in tri-cross hybrid nanomaterials on 3D surface via GFET
Analysis of Liquid Chromatography Considering a Linear Single-Component Heterogeneous-Type Reactive General Rate Model
Air Quality Index (AQI) Prediction in Holy Makkah Based on Machine Learning Methods
Positive Streamer Initiation in SF6/CO2 Based on Zener's Field Ionization
Overcoming Mycobacterium tuberculosis Drug Resistance: Novel Medications and Repositioning
Investigating and Modelling Ageing Effects on Polymeric Insulator Properties
Numerical simulation of chemically reacting Darcy-Forchheimer flow of Buongiorno Maxwell fluid with Arrhenius energy in the appearance of nanoparticles
Analysis of entropy generation in the flow of MHD water. ethylene glycol nanofluid over a spinning down pointing vertical cone
Concentration and Thermal Analysis of immiscible Tangent hyperbolic fluid with distinct viscosity through horizontal asymmetric channel: Theoretical and Observational study
Significance of Cattaneo-Christov Heat Flux on Heat Transfer with Bioconvection and Swimming Micro Organisms in Magnetized Flow of Magnetite and Silver Nanoparticles Dispersed in Prandtl Fluid
Manipulation of sensitivity of the surface plasmon polariton waves at the interface of high magneto-optical medium and silver metal using angular interrogation
Strength predictive models of cementitious matrix by hybrid intrusion of nano and micro silica: hyper-tuning with ensemble approaches
Analysis of a fractional order Bovine Brucellosis disease model with discrete generalized Mittag. Leffler kernels
On the lump interaction phenomena to the conformable fractional (2+1)-dimensional KdV equation
Thermal conductivity performance in sodium alginate-based Casson nanofluid flow by a curved Riga surface
Numerical analysis of magnetohydrodynamics in a Eyring-Powell hybrid nanofluid flow on wall jet heat and mass transfer
Thermal analysis of radiated (aluminum oxide)/water through a magnet based geometry subject to Cattaneo-Christov and Corcione's Models
ANALYSIS OF (1+N) DIMENSIONAL GENERALIZED CAMASSA-HOLM KADOMTSEVPETVIASHVILI EQUATION THROUGH LIE SYMMETRIES, NONLINEAR SELF-ADJOINT CLASSIFICATION AND TRAVELLING WAVE SOLUTIONS
Exploring the electrochemical properties of CuSe-decorated NiSe2 nanocubes for battery-supercapacitor hybrid devices
Experimental Investigation and Taguchi Optimization of FDM process parameters for the Enhancement of Tensile properties of Bi-Layered printed PLA-ABS
Morphological and Molecular Characterization of Arbuscular mycorrhizal fungi and its Influence on Soil Physiochemical Properties and Plant Nutrition"
Analysis and Numerical Approximation of Fractional-Order Two-Dimensional Diffusion-Wave Equation by Umair Ali*

A novel study on the influence of graphene-based nanofluid concentrations on the response characteristics and surface-integrity of Hastelloy C-276 during minimum quantity lubrication
A comparative analysis of generalized and extended -Expansion methods for travelling wave solutions of fractional Maccari's system with complex structure
Dynamics of Corcione nanofluid on a convectively radiated surface using Al ₂ O ₃ nanoparticles
Machine-Learning-Based Lithosphere-Atmosphere-Ionosphere Coupling Associated with Mw > 6 Earthquakes in America
Chemotaxis bioconvection in swirling flow of Maxwell fluid with diffusion-thermo and thermal-diffusion effects
Critical review on advancements on the fiber-reinforced composites: Role of fiber/matrix modification on the performance of the fibrous composites
Thermal analysis of the influence of harmonics on the current capacity of medium-voltage underground power cables
Numerical assessment of multiple vaccinations to mitigate the transmission of COVID-19 via a new epidemiological modeling approach
Computational examination of heat and mass transfer induced by ternary nanofluid flow across convergent/divergent channels with pollutant concentration
Manufacturing and experimental characterization of new-developed natural fiber reinforced polymer Nanocomposite
Machine Learning-Driven Predictive Models for Compressive Strength of Steel Fiber Reinforced Concrete Subjected to High Temperatures
A Novel Data Balancing Approach and a Deep Fractal Network with Light Gradient Boosting Approach for Theft Detection in Smart Grids
Entropy Minimization of Go . Ag/KO Cross Hybrid Nanofluid Over a Convectively Heated Surface
Significance of gyrotactic microorganisms on the MHD tangent hyperbolic nanofluid flow across an elastic slender surface: Numerical analysis
Estimation of yield, phenology and agro-meteorological indices of Quality Protein Maize (Zea mays L.) under different nutrient omissions in temperate ecology of Kashmir
Sugarcane-bagasse-ash in enhanced mesophilic Co-digestion for biogas and nutrient recovery: A concept of developing rural circular bioeconomy
Comparative dynamics of mixed convection heat transfer under thermal radiation effect with porous medium flow over dual stretched surface
Predicting thermal conductivity and dynamic viscosity of nanofluid by employment of Support Vector Machines: A review
Modelling of multiple biodiesel-emitted nitrogen oxides using ANN approach
A Model Development for Thermal and Solutal Transport Analysis of Non-Newtonian Nanofluid Flow over a Riga Surface Driven by a Waste Discharge Concentration
Implementation of African Vulture Optimization Algorithm Based on Deep Learning for Cybersecurity Intrusion Detection"
Exact fractional soliton solutions of thin-film ferroelectric material equation by analytical approach
Seismic Performance Evaluation of Cellular Lightweight Concrete (CLC) Block Masonry Walls
Non-linear finite element modeling of damages in bridge piers subjected to lateral monotonic loading
New fractional approach for CMC and water based hybrid nanofluid with slip boundary layer: Applications of fractal fractional derivative
Simulations for MHD mixed convection in a partially heated lid-driven chamfered enclosure
Entropy generation due to nanofluid flow in porous media over radiative permeable exponentially surface with nanoparticle aggregation effect
Thermal and CFD Analyses of Sustainable Heat Storage-based Passive Greenhouse Dryer operating in No-load Condition
Islanded green energy system optimal analysis using PV, wind, biomass, and battery resources with various economic criteria
Simultaneous Applications of Fins and Nanomaterials in Phase Change Materials: A Comprehensive Review
Parametric optimization of electric discharge machining of Ni 55.65Ti based shape memory alloy using NSGA II with TOPSIS

Coaxially Swirled Porous Disks Flow Simultaneously Induced by Mixed Convection with Morphological Effect of Metallic/Metallic oxides Nanoparticles
Investigation of the mechanical properties, surface quality, and energy efficiency of a fused filament fabrication for PA6
Effect of nano-TiO ₂ particles addition on dissimilar AA2024 and AA2014 based composite developed by friction stir process technique
Bioconvection transport of upper convected Maxwell nanofluid with gyrotactic microorganism, nonlinear thermal radiation, and chemical reaction
3D-CNNHSR: A 3-Dimensional Convolutional Neural Network for Hyperspectral Super-Resolution
Mathematical analysis of radius and length of CNTs on flow of nanofluid over surface with variable viscosity and joule heating
The problem of reduce description in chemical kinetics
Effects of stenosis and aneurysm on blood flow in stenotic-aneurysmal artery
Numerical method for fractional Advection. Dispersion equation using shifted Vieta. Lucas polynomials
Exergy and sustainability analysis of a solar heat collector with wavy delta winglets as turbulent promoters: A numerical analysis
Investigation of thermal stratification with velocity slip and variable viscosity on MHD flow of Al ₂ O ₃ - Cu - TiO ₂ /H ₂ O nanofluid over disk
Multi-Objective Optimization of an Islanded Green Energy System Utilizing Sophisticated Hybrid Metaheuristic Approach
The formation of solitary wave solutions and their propagation for Kuralay equation
Prediction and simulation of mechanical properties of borophene-reinforced epoxy nanocomposites using molecular dynamics and FEA
Vacancy and surface modulation engineering of CuxCo3-xO4 nanowires as an advanced cathode for zinc-ion hybrid supercapacitors
Effect of Joule heating and MHD on periodical current density and amplitude of heat transfer along thermally magnetized cylinder
Experimental investigations of electrodeposited Zn, Ni, Zn, Co, and Ni, Cr, Co. based novel coatings on AA7075 substrate to ameliorate the mechanical, abrasion, morphological, and corrosion properties for automotive applications
A CRITICAL ANALYSIS OF CHAOS BASED BEHAVIOR INSPIRED COHERENT SMATTERING WITH ITS POTENTIAL SIGNIFICANCE
Role of localized magnetic field in vortex generation in tri-hybrid nanofluid flow: A numerical approach
Significance of heat and mass transport in peristaltic flow of Jeffrey material subject to chemical reaction and radiation phenomenon through a Tapered channel
Analytical soliton solutions and wave profiles of the (3+1)-dimensional modified Korteweg. de Vries. Zakharov. Kuznetsov equation
Influence of buoyancy and viscous dissipation effects on 3D magneto hydrodynamic viscous hybrid nano fluid (MgO - TiO ₂) under slip condit."
Triazolopyridine, a leitmotif of synthetic methods and pharmacological attributes: an extensive review
Appearance of reinforcement, interfacial product, heterogeneous nucleant and grain refiner of MgAl ₂ O ₄ in Aluminium Metal Matrix Composites
Study of Optical Stochastic Solitons of Biswas-Arshed Equation with Multiplicative Noise in Birefringent Fibers
Comparative analysis of experimental and numerical investigation on multiple projectile impact of AA5083 friction stir welded targets
Mathematical analysis for energy transfer of micropolar magnetic viscous nanofluid flow on permeable inclined surface and Dufour impact
A novel decision model with Einstein aggregation approach for garbage disposal plant site selection under q-rung orthopair hesitant fuzzy rough information
Coupled Fixed Point and Hybrid Generalized Integral Transform Approach to Analyze Fractal Fractional Nonlinear Coupled Burgers Equation
Irreversibility analysis of hydromagnetic nanofluid flow past a horizontal surface via Koo-Kleinstreuer-Li (KKL) model

Influence of chemical reaction and thermal convective condition on the heat and mass transport in boundary layer flow over a magneto-radiated wedge with cross diffusion
On the analytical study of predator-prey model with Holling-II by using the new modified extended direct algebraic technique and its stability analysis
New wave solutions of a nonlinear Landau-Ginzburg-Higgs equation: The Sardar-sub equation and energy balance approaches
Distance and weightage-based identification of most critical and vulnerable locations of surface water pollution in Kabul river tributaries
Thermal and physical impact of viscoplastic nanoparticles in a complex divergent channel due to peristalsis phenomenon: Heat generation and multiple slip effects
Experimental analysis of heat exchanger using perforated conical rings, twisted tape inserts and CuO/H ₂ O nanofluids
Salicylic Acid and Etoposide Ameliorate Salinity Impact on Wheat
Mathematical assessment of Monkeypox with asymptomatic infection: Prediction and optimal control analysis with real data application
Heat transfer analysis in a longitudinal porous trapezoidal fin by non-Fourier heat conduction model: An application of artificial neural network with Levenberg-Marquardt approach
Catalysis reaction influence on 3D tetra hybrid nanofluid flow via oil rig solar panel sheet: Case study towards oil extraction
Numerical Solution for the Electrically Conducting Hybrid Nanofluid Flow between two Parallel Rotating Surfaces subject to Thermal Radiation
An efficient heat transfer analysis of MHD flow of hybrid nanofluid between two vertically rotating plates using Keller box scheme
Heat transfer in Jeffrey fluid flow over a power law lubricated surface inspired by solar radiations and magnetic flux
Exploration of heat and mass transfer subjected to first order chemical reaction and thermal radiation: Comparative dynamics of nano, hybrid and tri-hybrid particles over dual stretching surface
Computations for efficient thermal performance of Go+ AA7072 with engine oil based hybrid nanofluid transportation across a Riga wedge
Finite element modeling of dual convection in a Y shaped porous cavity containing viscous fluid
Risk Probabilistic Characteristics for Contaminated Porcelain Insulator in the Egyptian Sinai Desert
Model-based comparison of hybrid nanofluid Darcy-Forchheimer flow subject to quadratic convection and frictional heating with multiple slip conditions
Vortex generation due to multiple localized magnetic fields in the hybrid nanofluid flow: A numerical investigation
An efficient method for faults diagnosis in analog circuits based on machine learning classifiers
Linear Gain Controller aided Iterative Soft Sequential Acquisition for Primitive Polynomials
Novel analytical technique for mathematical model representing communication signals: A new travelling wave solutions
Heat transfer analysis of buoyancy opposing radiated flow of alumina nanoparticles scattered in water-based fluid past a vertical cylinder
Measurement of Thermal Radiative and Mass transfer of Peristaltic Pumping of Electrically-conducting Bio-bi-phase flow due to Metachronal wave: Eukaryotic cells
the impact of the face mask on SARS-CoV-2 disease: Mathematical modeling with a case study
Boosting the energy storage performance of aqueous NH ₄ ⁺ symmetric supercapacitor based on the nanostructured molybdenum disulfide nanosheets
Revolutionizing heat transfer: exploring ternary hybrid nanofluid slip flow on an inclined rotating disk with thermal radiation and viscous dissipation effects
Numerical analysis of MHD tri-hybrid nanofluid over a nonlinear stretching/shrinking sheet with heat generation/absorption and slip conditions
The impact of standard and nonstandard finite difference schemes on HIV nonlinear dynamical model
Numerical analysis of heat transfer in Ellis hybrid nanofluid flow subject to a stretching cylinder

Heat transfer in MHD thin film flow with concentration using lie point symmetry approach
Prabhakar fractional approach for enhancement of heat transfer due to hybrid nanomaterial with sinusoidal heat conditions
Novel Analytical Technique to Find Diversity of Solitary Wave Solutions for Wazwaz-Benjamin-Bona Mahony Equations of Fractional Order
Endo/Exothermic Chemical Processes Influences of Tri-Hybridity Nanofluids Flowing Over Wedge with Convective Boundary Constraints and Activation Energy
Nonlinear free convective with longitudinal slits in the presence of super-hydrophobic and non-hydrophobic microchannels in a suspension of nanoparticles: Multi-Linear Regression Analysis
Silicon intercalation on MXene nanosheets towards new insights into a superior electrode material for high-performance Zn-ion supercapacitor
Enhancement in the efficiency of heat recovery in a Williamson hybrid nanofluid over a vertically thin needle with entropy generation
Flow transition and fluid forces reduction for flow around two tandem cylinders
Recent Advances of Transition Metal Dichalcogenides-Based Materials for Energy Storage Devices, in View of Monovalent to Divalent Ions
Computational Examination of Non-Darcian Flow of Radiative Ternary Hybridity Casson Nanoliquid Through Moving Rotary Cone
Heat Treatment Behavior of Cr in the Form of Collagen Powder and Al ₂ O ₃ Reinforced Aluminum-Based Composite Material
Investigating the Effect of Milling Time on Structural, Mechanical and Tribological Properties of a Nanostructured Hipped Alpha Alumina for Biomaterial Applications
Wastewater treatment: A short assessment on available techniques
Mathematical analysis of mixed convective stagnation point flow over extendable porous riga plate with aggregation and joule heating effects
Insights into the thermal attributes of sodium alginate (NaC ₆ H ₇ O ₆) based nanofluids in a three-dimensional rotating frame: A comparative case study
Melting rheology of three-dimensional Maxwell nanofluid (Graphene- Engine-Oil) flow with slip condition past a stretching surface through Darcy-Forchheimer medium
Amplitude and oscillating assessment of thermal and magnetic boundary layer flow across circular heated cylinder with heat source/sink
Development of thermodynamically assisted machine learning model to select best fuel for the thermal power station
Performance Investigation of Cryogenic Treated-Double Tempered Cutting Inserts in Dry Turning of Ti-6Al-4V Alloy
Dynamo script and a BIM-based process for measuring embodied carbon in buildings during the design phase
Sustainable energy management using the Internet of Things (IoT)
Effect of temperature-dependent internal heat generation over exponential and dovetail convective-radiative porous fin wetted in hybrid nanofluid
Flow and heat transfer analysis on micropolar fluid through a porous medium between a clear and Al ₂ O ₃ Cu/H ₂ O in conducting field
Prediction of Groundwater Water Quality Index Using Classification Techniques in Arid Environments
Pythagorean Fuzzy Einstein Aggregation Operators with Z-Numbers: Application in Complex Decision Aid Systems
Analysis of assisting and opposing flows of the Eyring-Powell fluid on the wall jet nanoparticles with significant impacts of irregular heat source/sink
Development and optimization of non-geothermal and geothermal-based electricity generation systems in regard to their environmental performance
Thermal analysis of boundary layer nanofluid flow over the movable plate with internal heat generation, radiation, and viscous dissipation
Fractional Study of Radiative Brinkman-type nanofluid flow across a vertical plate with the effect of Lorentz force and Newtonian heating
Seed Priming Modulates Physiological and Agronomic Attributes of Maize (Zea mays L.) under Induced Polyethylene Glycol Osmotic Stress
Mathematical analysis of unsteady blood flow through bifurcated abdominal aorta featured aneurysm

Darcy-Benard-Oldroyd Convection in anisotropic porous layer subject to internal heat generation by Mahantesh S Swamy, B N Hanumagouda, Umair Khan
A Hierarchical Approach Based CBIR Scheme using Shape, Texture, and Color for Accelerating Retrieval Process
Evaluation of economic development policies using a spherical fuzzy extended TODIM model with Z-numbers
Brownian and thermal diffusivity impact due to the Maxwell nanofluid (Graphene/Engine Oil) flow with Motile Microorganisms and Joule Heating
Heat transport mechanism in glycerin-titania nanofluid over a permeable slanted surface by considering nanoparticles aggregation and Cattaneo Christov thermal flux
Diversity of soliton solutions to the (3 + 1)-Dimensional Wazwaz-Benjamin-Bona-Mahony equations arising in mathematical physics
Some well known inequalities for (h1, h2)-convex stochastic process via interval set inclusion relation
The flow of an Eyring Powell Nanofluid in a porous peristaltic channel through a porous medium
Numerical investigation on cooling cylindrical lithium-ion-battery by using different types of nanofluids in an innovative cooling system
Symmetry analysis and exact Jacobi elliptic solutions for the nonlinear couple Drinfeld Sokolov Wilson dynamical system arising in shallow water waves
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Electrically conducting mixed convective flow of a hybrid nanoliquid over a rotating sphere with nonlinear thermal radiation
Investigation of improved heat transport featuring in dissipative ternary nanofluid over a stretched wavy cylinder under thermal slip
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ION-ACOUSTIC WAVE DYNAMICS AND SENSITIVITY STUDY IN A MAGNETIZED AURORAL PHASE PLASMA

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Wind Energy Conversion Systems Based on a Synchronous Generator: Comparative Review of Control Methods and Performance
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Lane Line Detection and Object Scene Segmentation Using Otsu Thresholding and the Fast Hough Transform for Intelligent Vehicles in Complex Road Conditions
a novel mathematical model for effects of wall properties on pumping flow of a bio-fluid in a three dimensional symmetric curved duct
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Evaluate Asymmetric Peristaltic Pumping Drug Carrying Image in Biological System: Measure Multiphase Flows in Biomedical Applications
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Load Management and Optimal Sizing of Special-Purpose Microgrids Using Two Stage PSO-Fuzzy Based Hybrid Approach
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Thermally Dissipative Flow and Entropy Analysis for Electromagnetic Trihybrid Nanofluid Flow Past a Stretching Surface
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Dynamics of Rotating Micropolar Fluid over a Stretch Surface: The Case of Linear and Quadratic Convection Significance in Thermal Management
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Numerical analysis of thermal transportation in nanodiamond and silver-based nanofluid using the Cattaneo. Christov heat flux model
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Heat Transport Exploration for Hybrid Nanoparticle (Cu, Fe ₃ O ₄)-Based Blood Flow via Tapered Complex Wavy Curved Channel with Slip Features
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Thermal efficiency in hybrid (Al ₂ O ₃ -CuO/H ₂ O) and tri-hybrid (Al ₂ O ₃ -CuO-Cu/H ₂ O) nanofluids between converging/diverging channel with viscous dissipation function: Numerical analysis
Peristaltic flow of a viscous fluid in a curved duct with a rectangular cross section
The Dynamics of Water-Based Nanofluid Subject to the Nanoparticle Radius with a Significant Magnetic Field: The Case of Rotating Micropolar Fluid
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Significance of bio-convection, MHD, thermal radiation and activation energy across Prandtl nanofluid flow: A case of stretching cylinder
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Significance of Thermal Phenomena and Mechanisms of Heat Transfer through the Dynamics of Second-Grade Micropolar Nanofluids
An Optimization on the Neuronal Networks Based on the ADEX Biological Model in Terms of LUT-State Behaviors: Digital Design and Realization on FPGA Platforms
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A new statistical approach for modeling the bladder cancer and leukemia patients data sets: Case studies in the medical sector
Exploring energy storage methods for grid-connected clean power plants in case of repetitive outages
Simulation of solar thermal panel systems with nanofluid flow and PCM for energy consumption management of buildings
Hydro-thermal and economic analyses of the air/water two-phase flow in a double tube heat exchanger equipped with wavy strip turbulator
A New Tobit Ridge-Type Estimator of the Censored Regression Model With Multicollinearity Problem
Characterization of the Induced Magnetic Field on Third-Grade Micropolar Fluid Flow Across an Exponentially Stretched Sheet
Investigation of thermal performance of a shell and tube latent heat thermal energy storage tank in the presence of different nano-enhanced PCMs
Extended hyperbolic function method for the (2+ 1)-dimensional nonlinear soliton equation
Detection of Distributed Denial of Service (DDoS) Attacks in IOT Based Monitoring System of Banking Sector Using Machine Learning Models
The Role of the Accumulated Surface Charge on Nanoparticles in Improving the Breakdown Strength of Liquid and Solid Insulation
Solitary wave solutions for a strain wave equation in a microstructured solid
Bio-Convection Effects on Prandtl Hybrid Nanofluid Flow with Chemical Reaction and Motile Microorganism over a Stretching Sheet
New Two-Parameter Estimators for the Logistic Regression Model with Multicollinearity
Multi-Objective Quantum-Inspired Seagull Optimization Algorithm
Measurement of Power Frequency Current including Low- and High-Order Harmonics Using a Rogowski Coil
Electrochemical investigation of PANI: PPy/AC and PANI: PEDOT/AC composites as electrode materials in supercapacitors

Modified Interactive Algorithm Based on Runge Kutta Optimizer for Photovoltaic Modeling: Justification Under Partial Shading and Varied Temperature Conditions

Optimal Charging/Discharging Decision of Energy Storage Community in Grid-Connected Microgrid Using Multi-Objective Hunger Game Search Optimizer