

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 :

- Application of recycled nickel-oxide nanoparticles for biodiesel synthesis from the non-edible seed oil of Acacia farnesiana
- Numerical study of unsteady reactive third-grade fluid flow in a microchannel through a porous medium subject to exothermic reaction
- Schrodinger-Hirota equation in birefringent
- Mechanically sustainable and primary recycled thermo-responsive ABS. PLA polymer composites for 4D printing applications: Fabrication and studies
- In Vitro Early Vegetative Growth of Tomato (*Solanum lycopersicum* L.) Cultivars Under Salt Stress
- Analysis of Soret and Dufour effects on radiative heat transfer in hybrid bioconvective flow of carbon nanotubes
- Consequences of higher order chemical reaction on bioconvective carbon nanotubes flow implementing Buongiorno's model
- Simulation-based design of 1-D copper nanograting device for sensing application by studying electromagnetic properties on Cu/Air interface
- Parametric simulations of fractal-fractional non-linear viscoelastic fluid model with finite difference scheme
- On the impact of the COVID-19 pandemic on mental health in Egypt: Penalized regression approach
- Predictive modelling of compressive strength of fly ash and ground granulated blast furnace slag based geopolymer concrete using machine learning techniques
- Characterization of Salt-Tolerant Cultivars of Date Palm Based on Morphological and Biochemical Responses Under Salinity Stress
- Characterization of Bread Wheat Genotypes for Drought Stress Adaptation
- GC-MS characterization of Polygonatum geminiflorum depicted by antibacterial efficacy of the biosynthesized silver nanoparticles using its leaf extract
- Achieving green mobility: Multi-objective optimization for sustainable electric vehicle charging
- Evaluation of mechanical properties and Fick's diffusion behaviour of aluminum-DMEM reinforced with hemp/bamboo/basalt woven fiber metal laminates (WFML) under different stacking sequences
- An extended model to assess Jeffery. Hamel blood flow through arteries with iron-oxide (Fe_2O_3) nanoparticles and melting effects: Entropy optimization analysis
- Extended Deep Learning Algorithm for Improved Brain Tumor Diagnosis System

Triple-diffusive free convection enhancement at the stagnation point on moving sheet under the influence of hall effect and mass flux
Improving flow efficiency in micro and mini-channels with offset strip fins: A stacking ensemble technique for Accurate friction factor prediction in steady periodically developed flow
Enhancing Stock Price Prediction with Deep Cross-Modal Information Fusion Network
Synergistic effect of recycling waste coconut shell ash, metakaolin, and calcined clay as supplementary cementitious material on hardened properties and embodied carbon of high strength concrete
MXenes to MBenes: Latest development and opportunities for energy storage devices
Miniaturization and Fabrication of a Novel Cross-Fractal Biosensor and Sensor for Characterizing 3D Printing Electromagnetic Properties in Polylactic Acid
Generalized fractional model of heat transfer in uncertain hybrid nanofluid with entropy optimization in fuzzy-Caputo sense
Mitigation Uncertainty Problems of Renewable Energy Resources with Efficient Integration of Hybrid solar PV/Wind system into Power Networks
Sensitivity analysis and thermodynamic evaluation of a combined cooling, heating and power system utilizing exhaust gases of smelting furnace
Enhanced heat transfer and fluid motion in 3D nanofluid with anisotropic slip and magnetic field
Flow Breakdown of Hybrid Nanofluid on a Rigid Surface with Power Law Fluid as Lubricated Layers.
Model-based comparative analysis of MHD stagnation point flow of hybrid nanofluid over a stretching sheet with suction and viscous dissipation
The impact of Caputo-Fabrizio fractional derivative and the dynamics of noise on worm propagation in wireless IoT networks
Use of ginger extract and bacterial inoculants for the suppression of Alternaria solani causing early blight disease in Tomato
Optical solitons of new extended (3+1)-dimensional nonlinear Kudryashov equation via -model expansion method
Structural and Magnetic Impressions of Rare Earth Tb Doping on Ba. In Based Hexaferrites Prepared Through Sol. Gel Route for Magnetic Aspects
Enhancing the performance of thermal energy storage by adding nano-particles with paraffin phase change materials
Residual Mechanical Properties of Concrete Incorporation with Nano Supplementary Cementitious Materials Exposed to Elevated Temperature
Assessment and optimization of a single flash geothermal system recovered by a trans-critical CO ₂ cycle using different scenarios
The baffle shape effects on natural convection flow and entropy generation in a nanofluid-filled permeable container with a magnetic field
Natural Convection and Irreversibility of Nanofluid Due to Inclined Magnetohydrodynamics (MHD) Filled in a Cavity with Y-Shape Heated Fin: FEM Computational Configuration
Numerical investigation of thermal radiation with entropy generation effects in hybrid nanofluid flow over a shrinking/stretching sheet
A proceeding to numerical study of mathematical model of bioconvective Maxwell nanofluid flow through a porous stretching surface with nield/convective boundary constraints
Effectiveness of corn stalk biochar in amending the contaminated soil attributes and enhancing the sustainable grass growth
Optimal system, invariant solutions and dynamics of the solitons for the Wazwaz Benjamin Bona Mahony equation
An enhanced video compression approach through RLAH encoding and KDENN algorithms
Distribution of nutrients, bioactive compounds, and antioxidant properties of grain-based milling fractions of Glycine max L
Eco-benign synthesis of Fe ₂ O ₃ mediated Trachyspermum ammi: A new insight to photocatalytic and bio-medical applications
New solutions of fractional 4D chaotic financial model with optimal control via He-Laplace algorithm
Comparative analysis of soil quality indexing techniques for various tree based land use systems in semi-arid India
MHD unsteady flow of carbon nanotubes over nonlinear radiative surface with anisotropic slip conditions: computational analysis of irreversibility for Yamada-Ota model
Amplitude of heat and mass transfer of gravity-driven convective oscillatory flow along inclined heated plate under reduced gravity and viscosity
Thermal convection in rotating ferromagnetic liquid with thermorheological and magnetorheological effects

Numerical computations for convective MHD flow of viscous fluid inside the hexagonal cavity having sinusoidal heated walls
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
Fractional analysis of unsteady radiative brinkman-type nanofluid flow comprised of CoFe2O3 nanoparticles across a vertical plate
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 CO2 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
Exploring the mechanical, electronic, and optical properties of gallium based LmGaAs2 (Lm= In, Eu, Ta) chalcopyrites implications for photovoltaic applications: an ab initio DFT study
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-Al2O3 /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
Thermal energy recovery from a Brayton cycle nuclear power plant for efficiency improvement via compressor inlet cooling: Thermo-economic optimization
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 Ti2N/Ti3C2Tx-MXene Interface leads to enhance the performance of aqueous NH4+-ion hybrid supercapacitors
Comparative investigations of Ag/H2O nanofluid and Ag-CuO/H2O 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 <i>Withania coagulans</i> (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's model
Investigation of Supercapacitor Electrodes Based on MIL-101(Fe) Metal-Organic Framework: Evaluating Electrochemical Performance through Hydrothermal and Microwave-Assisted Synthesis
The computation of Lie point symmetry generators, modulational instability, classification of conserved quantities, and explicit power series solutions of the coupled system
Inclined magnetic force impact on cross nanofluid 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
Diffusion analysis of three kinds of species with two salts in two working fluids using Darcy's law using solar radiations
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
Exploring the potential impact of group identity on post-traumatic growth in the aftermath of Corona outbreak: function of social. emotional competence as a mediator
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. ¥^ç ð Å å Å Dunnç 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

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 SF ₆ /CO ₂ 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

eastern Brazil
ANALYSIS OF (1+N) DIMENSIONAL GENERALIZED CAMASSA-HOLM KADOMTSEVPETVIASHVIL'I EQUATION THROUGH LIE SYMMETRIES, NONLINEAR SELF-ADJOINT CLASSIFICATION AND TRAVELLING WAVE SOLUTIONS
Exploring the electrochemical properties of CuSe-decorated NiSe ₂ 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 nanoliquid 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
Entropy optimized Ferro-copper/blood based nanofluid flow between double stretchable disks: Application to brain dynamic
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
Comparative analysis of analytical and numerical approximations for the flow and heat transfer in mixed convection stagnation point flow of Casson fluid
Analysis of non-linear RIM system and neural computing of ringworm spread using the Levenberg. Marquardt back propagated scheme: Supervised learning
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
Quantum entanglement and quantum discord in a two-qubit system

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
Exploring the potential of nano technology: A assessment of nano-scale multi-layered-composite coatings for cutting tool performance
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 waves 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 ß-tocopherol 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 viscus 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
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Correction: Wang et al. 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. <i>Biology</i> 2022, 11, 1125
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Hydrothermal Synthesis of Binder-Free Metallic NiCo ₂ O ₄ Nano-Needles Supported on Carbon Cloth as an Advanced Electrode for Supercapacitor Applications
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
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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
An ensemble agglomerative hierarchical clustering algorithm based on clusters clustering technique and the novel similarity measurement
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