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 birefingent
Mechanically sustainable and primary recycled thermo-responsive ABSï 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 Fickõs diffusion behaviour of aluminum-DMEM reinforced with hemp/bamboo/basalt woven fiber metal laminates (WFML) under different stacking sequences
An extended model to assess Jefferyï Hamel blood flow through arteries with iron-oxide (Fe2O3) 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 Kudryashovôs equation via -model expansion method
Structural and Magnetic Impressions of Rare Earth Tb Doping on Baï In Based Hexaferrites Prepared Through Solï 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 CO2 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 Ŭ-Fe2O3 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

Recent trends in wastewater treatment by using metal-organic frameworks (MOFs) and their composites: A critical view-point
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
Comparative Analysis of Non Newtonian and Newtonian Fluid Flow with Dual Slip in the Presence of Motile Microorganisms and Nanoparticles
Machine learning-aided modeling for predicting freshwater production of a membrane desalination system: A long-short-term memory coupled with election-based optimizer
Darcy-Forchheimer flow with viscoelastic Cattaneo-Christov heat flux model and nonlinear thermal radiation: A numerical investigation
Effect of Grazing and Mowing on Soil Physiochemical Properties in a Semi-Arid Grassland of Northeast China
Significance of heat passage in four-phase Oldroyd-B nanofluid with solar thermal radiations through a cone: A study of entropy analysis
p, q-Spherical fuzzy sets and their aggregation operators with application to third-party logistic provider selection
Nonlinear thermal radiation and the slip effect on a 3D bioconvection flow of the Casson nanofluid in a rotating frame via a homotopy analysis mechanism
Effect of curved anchor impellers on power consumption and hydrodynamic parameters of yield stress fluids (Binghamï Papanastasiou model) in stirred tanks
Quaternion Framework of Neutrosophic Information with its Distance Measures and Decision-Making Mode
Statistical investigations and morphological aspects of cross-rheological material suspended in transportation of alumina, silica, titanium, and ethylene glycol via the Galerkin algorithm Shuguang Li , Muhammad Sohail EMAIL logo , Umar N
Synthesis and characterizations of super adsorbent hydrogel based on biopolymer, Guar Gum-grafted-Poly (hydroxyethyl methacrylate) (Gg-g-Poly (HEMA)) for the removal of Bismarck brown Y dye from aqueous solution
Nanoremediation approaches for the mitigation of heavy metal contamination in vegetables: An overview
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
MoS2/Ti3CO2 heterostructure-based ceramics as promising electrode material for high-performance monovalent energy storage devices
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
Maximizing wheat yield through soil quality enhancement: A combined approach with Azospirillum brasilense and bentonite
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 hea
Fractional Nadeem trigonometric non-Newtonian (NTNN) fluid model based on Caputo-Fabrizio fractional derivative with heated boundaries
MOF@graphene nanocomposites for energy and environment applications
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

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 currenton 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 ZnxAxSiGeN4 Using GGA;+;U Functional: A Study 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: Thermoeconomic 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 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 Reactionï Diffusion system
A mathematical approach for modeling the blood flow containing nanoparticles by employing the Buongiornoŝ 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 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 Kudryashovï Sinelshchikov Equation in a Mixture of Liquidï 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 socialï 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@MnO2-based hybrid supercapacitors using Randlesï Ġevļ ²k and Dunnŝ 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 CO2 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
Enhancement in wear-resistance of 30MNCRB5 Boron steel-substrate using HVOF thermal sprayed WC-10%Co-4%Cr coatings: A comprehensive research on microstructural, tribological, and morphological analysis
Review on CdS-derived photocatalysts for solar photocatalytic applications ï 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 Oldroyed-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 Ca0.5Mg0.5Fe12ī xCrxO19 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
Hybrid and physical interaction phenomena solutions to the HirotaĄ Bilinear equation in shallow water waves theory
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 Sr2YGaX2O7 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
Numerical solution of heat and mass transfer using buongionro nanofluid model through a porous stretching sheet impact of variable magnetic, heat source, and temperature conductivity
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 Ginzburgï 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 Modelof 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 Elelctrochemical 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 FRAC TIONAL 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 DarcyForchheimer 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 efcient 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 MachineLearning Methods
Positive Streamer Initiation in SF6/CO2 Based on Zenerôs 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 waterï 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 Mittagï 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 Corcioneô Models

Assessment of hybrid machine learning algorithms using TRMM rainfall data for daily inflow forecasting in Tr° s Marias Reservoir, 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 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 Equationò 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 Al2O3 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
Predicting California bearing ratio of HARHA treated expansive soils using Gaussian process regression
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 ï 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-TiO2 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 Levenbergï Marquardt back propagated scheme: Supervised learning
Bioconvection transport of upper convected Maxwell nanoliquid with gyrotactic microorganism, nonlinear thermal radiation, and chemical reaction
3D-CNNHSR: A 3-Dimensional Convolutional Neural Network for Hyperspectral Super-Resolution
Analysis of the Exact Solutions of Nonlinear CoupledĄ Drinfeld-SokolovWilson Equation throughĄ Ğ- ModelĄ Expansion Method
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 Advectionï Dispersion equation using shifted Vietaï Lucas polynomials
Topological localized region of Goos-Hª nchen shifts in reflection and transmission
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 Al2O3ī Cuī TiO2/H2O 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 Znï Ni, Znï Co, and Niï Crï Coï 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 Kortewegï de Vriesï Zakharovï Kuznetsov equation
On the modulational of Schamel nonlinear Schrº dinger equation and the associated envelope excitations in a degenerate relativistic quantu

Influence of buoyancy and viscous dissipation effects on 3D magneto hydrodynamic viscous hybrid nano fluid (MgO TiO2) 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 MgAl2O4 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 predatorï 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/H2O nanofluids
Salicylic Acid and Ŭ-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 Levenbergï 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
Underwater wireless sensor network based multihop data transmission using hybrid cat cheetah optimization algorithm
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 ï 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 NH4+ 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
Analysis of a viscoelastic fluid flow with Cattaneo-Christov heat flux and Soret-Dufour effects
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 Al2O3 Reinforced Aluminum-Based Composite Material
Investigating the Effect of Milling Time on Structural, Mechanical and Tribological Properties of a Nanostructured Hiped 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 (NaC6H7O6) 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 Al2O3ī Cu/H2O 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 generationȁ 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
Comparative Effects of Hydropriming and Iron Priming on Germination and Seedling Morphophysiological Attributes of StayGreen Wheat
Thermal Management in Annular Fin using Ternary Nanomaterials Influenced by Magneto-Radiative Phenomenon and Natural Convection
A mathematical study unfolding the transmission and control of deadly Nipah virus infection under optimized preventive measures: New insights using fractional calculus
A novel mathematical study to understand the Lumpy skin disease (LSD) using modified parameterized approach
Influence of Hall current & Lorentz force with nonlinear thermal radiation in an inclined slip flow of couple stress fluid over a Riga plate
Case study of thermal and solutal aspects on non-Newtonian Prandtl hybrid nanofluid flowing via stretchable sheet: Multiple slip solution
Numerical analysis of Magnetohydrodynamic convection heat flow in an enclosure
Structural, Mechanical and Tribological Performance of a Biomedical Co-Cr-Mo Alloy Synthesized Via Mechanical Alloying
Structural, piezoelectric and ferroelectric analysis of 0.96Bi0.5Na0.5TiO3-0.06BaTiO3: xwt%MnO2 ceramics for high-tech applications
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
Fabrication and characterizations of Glass fiber-reinforced functional leaf spring composites with or without microcapsule-based dicyclopentadiene as self-healing agent for automobile industrial applications: Comparative analysis
Evaluation of Properties of Bio-composite with Interpretable Machine Learning Approaches: Optimization and Hyper Tuning

Influence of Wire Rolling on Zircalloy-2: Tensile Behaviour and Microstructural investigation
Theoretical investigation of heat transfer analysis in Ellis nanofluid flow through the divergent channel
Investigation of Williamson nanofluid in a convectively heated peristaltic channel and magnetic field via method of moments
Flow investigation of the stagnation point flow of micropolar viscoelastic fluid with modified Fourier and Fick's law
Automatic Early Diagnosis of Dome Galls in Cordia dichotoma G. Forst. Using Deep Transfer Learning
Blockchain and IIoT Enabled Solution for Social Distancing and Isolation Management to Prevent Pandemics
Submarine Hunter: Efficient and Secure Multi-Type Unmanned Vehicles
Design and Analysis of Graphene Based Tunnel Field Effect Transistor with Various Ambipolar Reducing Techniques
Fabrication and characterization of magnetic eucalyptus carbon for efficient Cr(VI) removal in aqueous solution and its mechanisms
Economic and thermal analysis of a tubular thermoelectric power generator equipped with a novel fin-pin-porous based heat exchanger; comparative case study with conventional smooth channel
Enhancement of heat transfer utilizing small height twisted tape flat plate solar heat collector: A numerical study
Thermal case examination of inconstant heat source (sink) on viscous radiative Sutterby nanofluid flowing via a penetrable rotative cone
thermal case classification of solar-powered cars for binary tetra hybridity
Prediction of Sustainable Concrete Utilizing Rice Husk Ash (RHA) as supplementary cementitious material (SCM): Optimization and Hyper-tuning
Application of a novel metaheuristic algorithm based two-fold hysteresis current controller for a grid connected PV system using real time OPAL-RT based simulator
The Deep Learning ResNet101 and Ensemble XGBoost Algorithm with Hyperparameters Optimization Accurately Predict the Lung Cancer
Ulam-Hyers stability of tuberculosis and COVID-19 co-infection model under Atangana-Baleanu fractal-fractional operator
Numerical calculation of Darcy Forchheimer radiative hybrid nanofluid flow across a curved slippery surface
Thermal transport and characterized flow of trihybridity Tiwari and Das Sisko nanofluid via a stenosis artery: A case study
Heat transport magnetization for Burgers fluid in a porous medium with convective heating and heterogeneous-homogeneous response
Finite element based direct and iterative approach to investigate a magneto-micropolar flow through a rectangular channel
Optical solitons with DNA dynamics arising in oscillator-chain of Peyrard-Bishop model
Thermal description and entropy evaluation of magnetized hybrid nanofluid with variable viscosity via Crankï Nicolson method
Review of Different CdS/TiO2and WO3/ g-C3N4Composite Based Photocatalyst for Hydrogen Production
Heat and momentum diffusion of ternary hybrid nanoparticles in a channel with dissimilar permeability's and moving porous walls: A Multi-linear regression
A passive control approach for simulating thermally enhanced Jeffery nanofluid flows nearby a sucked impermeable surface subjected to buoyancy and Lorentz forces
Computational Study of Doping in Dopamine with Halogens to Control Optical and Spectroscopic Properties
The impact of Cu-polluted and organic soil on the fibrous plant; insights into plant growth promotion, antioxidant defences system, and oxidative stress
N-functionalization and defect engineering in ZnCo2O4 nanosheets boosted the performance of Zn-ion hybrid supercapacitor
Multiple fusion solutions and other waves behavior to the Broer-Kaup-Kupershmidt system
Recent Progress in Cattaneo-Christov Heat and Mass Fluxes for Bioconvectional Carreau Nanofluid with Motile Microorganisms and Activation Energy
Numerical simulation of unsteady generic Newtonian blood flow and heat transfer through discrepant shaped dilatable arterial stenosis
New structures for exact solution of nonlinear fractional Sharmaï Tassoï Olver equation by conformable fractional derivative
Development of predictive models for sustainable concrete via genetic programming-based algorithms

Metallurgical, mechanical and corrosion behaviour of pulsed and constant current TIG dissimilar welds of AISI 430 and Inconel 718
Processing and Evaluation of nano SiC reinforced aluminium composite synthesized through ultrasonically assisted stir casting process
Intelligent lung cancer MRI prediction analysis based on cluster prominence and posterior probabilities utilizing intelligent Bayesian methods on extracted gray-level co-occurrence (GLCM) features
Investigation of blood flow characteristics saturated by graphene/CuO hybrid nanoparticles under quadratic radiation using VIM: study for expanding/contracting channel
Bicriteria multi-machine scheduling with equal processing times subject to release dates
Physically significant solitary wave solutions to the space-time fractional Landauï Ginsburgï Higgs equation via three consistent methodsPhysically significant solitary wave solutions to the space-time fractional Landauï Ginsburgï Higgs equation via three consistent methods
A case study of different magnetic strength fields and thermal energy effects in vortex generation of Ag-TiO2 hybrid nanofluid flow
New solutions of fractional Maxwell fluid with ternary-hybrid nanoparticles
Effect of reinforcement of Alkaline-treated sugar palm/bamboo/kenaf and fibreglass/ Kevlar with polyester hybrid biocomposites: mechanical, morphological, and water absorption properties
A study of fractional Oldroyd-B fluid between two coaxial cylinders containing gold nanoparticles
Mathematical modeling of nanolayer on biological fluids flow through porous surfaces in the presence of CNT
Study on the physicomechanical, fracture-deformation, interface-adhesion, and water-absorption properties of twill fabric cotton-bamboo/epoxy composites
Analytical Study of (Ag-Graphene)/Blood Hybrid Nanofluid Influenced by (Platelets-Cylindrical)nanoparticles and Joule Heating via VIM
Mathematical Modeling and backward bifurcation in monkeypox disease under real observed data
Chemically reactive flow of viscous thermophoretic fluid over wedge with variable thermal conductivity and viscosity
Novel Ensemble Modelling for Prediction of Fundamental Properties of Bitumen Incorporating Plastic Waste
Computational assessment about hydrothermal attributes with induction of MWNT's-Fe3O4 in water saturated in hexagonal enclosure
Heat transfer through a higher grade Forchheimer porous CuOï H2O-nano-medium confined between non-isothermal moving plates
Impact of Ferromagnetic Ni Substitution on Structural and Magnetic Parameters of Ba0.8In0.2Fe12ï xNixO19 (x≠0.00ï 2.00) Hexaferrites
Thermal attributes of hybrid (MWCNT-NiZnFe2O4) nanofluid flow having motile microbes and activation energy: A computational approach
Computational assessment of thermally stratified magnetohydrodynamics Maxwell nanofluid with joule heating and melting heat transfer
Grey wolf optimization and enhanced stochastic fractal search algorithm for exoplanet detection
Assessing the environmental impact of industrial pollution using the complex intuitionistic fuzzy ELECTREE method: a case study of pollution control measures
Numerical framework of hybrid nanofluid over two horizontal parallel plates with non-linear thermal radiation
Behavior of stiffened concrete-filled steel tube columns infilled with nanomaterial-based concrete subjected to axial compression
Two Birds with One Stone: Cobalt/Silicon Species Encapsulated in MOF-derived Nitrogen-doped Carbon as an Integrated Electrode for Next-Generation Symmetric Pseudocapacitor with Energy Density over 100 Wh/kg
Analytical treatment on the nonlinear Schrº dinger equation with the parabolic law
Economic and thermal performance analysis of two-stage thin-film solar thermoelectric power generator
Numerical analysis of heat transfer and fluid flow in microchannel heat sinks for thermal management
Influence of heat generation/absorption on mixed convection flow field with porous matrix in a vertical channel
Numerical estimation of the fractional advectionï dispersion equation under the modified Atanganaï Baleanuï Caputo derivative
Comparative appraisal of mono and hybrid nanofuid fows comprising carbon nanotubes over a three dimensional surface impacted by Cattaneoï Christov heat fux

Performance improvement and CO and HC emission reduction of variable compression ratio spark-ignition engine using n-pentanol as a fuel additive
Experimental evaluation of diesel blends mixed with municipal plastic waste pyrolysis oil on performance and emission characteristics of CI engine
Impact of viscous dissipation and entropy generation on cold liquid via channel with porous medium by analytical analysis
Case study of autocatalysis reactions on tetra hybrid binary nanofluid flow via Riga wedge: Biofuel thermal application
The extended Fanˆs sub-equation method and its application to nonlinear Schrº dinger equation with saturable nonlinearity
Three parametric Prabhakar fractional derivative-based thermal analysis of Brinkman hybrid nanofluid flow over exponentially heated plate
Response surface methodology optimization of dynamical solutions of Lie group analysis for nonlinear radiated magnetized unsteady wedge
Impact of nanoparticle shape on entropy production of nanofluid over permeable MHD stretching sheet at quadratic velocity and viscous dissipationhttps://www.sciencedirect.com/science/article/pii/S2214157X23002988
Water thermal enhancement in a porous medium via a suspension of hybrid nanoparticles: MHD mixed convective Falkner's-Skan flow case study
ENTROPY GENERATION ANALYSIS OF HYBRID NANOFLUID THROUGH FLEXIBLE TUBE WITH CONVECTIVE CONDITIONS
ION-ACOUSTIC WAVE DYNAMICS AND SENSITIVITY STUDY IN A MAGNETIZED AURORAL PHASE PLASMA
Effect of inclined magnetic field on radiative heat and mass transfer in chemically reactive hybrid nanofluid flow due to dual stretching
Evaluation of the performance of fractional evolution equations based on fractional operators and sensitivity assessment
Double reductions and traveling wave structures of the generalized Pochhammerï Chree equation
Numerical simulation of the nanofluid flow consists of gyrotactic microorganism and subject to activation energy across an inclined stretching cylinder
Symmetry analysis and invariant solutions of Riabouchinsky Proudman Johnson equation using optimal system of Lie subalgebras
A non-linear study of optical solitons for Kaup-Newell equation without four-wave mixing
Identity and Diversity of Invasive Plant Affecting the Growth of Native Lactuca indica
Transmission dynamics of a novel HIV/AIDS model through a higher-order Galerkin time discretization scheme
FEM analysis of the impact of surface undulations on the natural convective flow of viscous fluid in a permeable trapezoidal enclosure
Optical solitons with an extended; -dimensional nonlinear conformable Schrº dinger equation including cubic-quintic nonlinearity
Acoustic wave structures for the confirmable time-fractional Westervelt equation in ultrasound imaging
A mathematical study on thermal performance of aluminum and titanium alloys based hybrid nanofluid using a multiparametric fractional operator
Multiple Lie symmetry solutions for effects of viscous on magnetohydrodynamic flow and heat transfer in non-Newtonian thin film
Impact of ciliated walls on peristaltic flow of Rabinowitsch fluid through flexible tube with heat/mass transfer
Bio-convection Eyring-Powell nanofluid through a spinning disk with a heated convective stretching sheet
Scheduling and Controlling Production in an Internet of Things Environment for Industry 4.0: An Analysis and Systematic Review of Scientific Metrological Data
An optimized stability framework for three-dimensional Hartman flow via Chebyshev collocation simulations
Numerical investigation of non-transient comparative heat transport mechanism in ternary nanofluid under various physical constraints
Comprehensive computational investigations on various aerospace materials under complicated loading conditions through conventional and advanced analyses: a verified examination
Numerical solution of an electrically conducting spinning flow of hybrid nanofluid comprised of silver and gold nanoparticles across two parallel surfaces
Impact of nanoparticles on vegetable oil as a cutting fluid with fractional ramped analysis
Biochemical features and therapeutic potential of Ŭ-Mangostin: Mechanism of action, medicinal values, and health benefits

Thermal Case Study and Generated Vortices by Dipole Magnetic Field in Hybridized Nanofluid Flowing: Alternating Direction Implicit Solutio
Deep Learning ResNet101 Deep Features of Portable Chest X-Ray Accurately Classify COVID-19 Lung Infection
Comprehensive investigations of (Au-Ag/Blood and Cu-Fe3O4/Blood) hybrid nanofluid over two rotating disks: Numerical and computational approach
Mixed convective flow of hybrid nanofluid over a heated stretching disk with zero-mass flux using the modified Buongiorno model
An efficient algorithm for the numerical solution of telegraph interface model with discontinuous coefficients via Haar wavelets
Influence of Additive mixed Ethanol-Biodiesel Blends on Diesel Engine Characteristics
Modeling and numerical simulation of non-Newtonian arterial blood flow for mild to severe stenosis
On characterization of physical properties for terbium (IV) oxide system via curve fitting models
Deployment of an intelligent and secure cattle health monitoring system
Grey relational analysis and surface texture analysis of Al-based metal matrix composites
Experimental and Numerical Study of Using of LPG on Characteristics of Dual Fuel Diesel Engine under Variable Compression Ratio
Accurate solution of unsteadiness natural convective of Maxwell nanofluid based-mineral oil flow via oscillation vertical surface: Thermic case specification
Numerical aspects of phase field models for low-temperature fracture in asphalt mixtures
Analysis of fluctuating heat and current density of mixed convection flow with viscosity and thermal conductivity effects along horizontal nonconducting cylinder
Degradation of Vibrio cholerae from drinking water by the underwater capillary discharge
Molecular Characterization of Germin-like Protein Genes in Zea mays (ZmGLPs) Using Various In Silico Approaches
Eco-friendly MoS2/waste coconut oil nanofluid for machining of magnesium implants
Numerical approximation of Atangana-Baleanu Caputo derivative for space-time fractional diffusion equations
FUNDAMENTAL ASPECTS of SKIN CANCER DRUGS VIA DEGREE-BASED CHEMICAL BONDING TOPOLOGICAL DESCRIPTORS
High performance ŭ-Bi2O3 nanosheets transformed Bi2S3 nanoflakes interconnected nanosheets as negative electrode for supercapacitor applications
SSM: Stylometric and Semantic Similarity Oriented Multimodal Fake News Detection
helf--life extension of Fragaria Ĭ ananassa Duch. using seleniumnanoparticles synthesized from Cassia fistula Linn. leaves
The machine learning in lithium-ion batteries: A review
Structural and Magnetic conduct in Sm and Al substituted Ba0.9Sm0.1Fe10Al2O19 M-type Hexaferrites at different sintering temperatures
Numerical simulation and mathematical modeling for heat and mass transfer in MHD stagnation point flow of nanofluid consisting of entropy generation
BIM adoption in sustainability, energy modelling and implementing using ISO 19650: A review
VOLUMETRIC THERMO-CONVECTIVE CASSON FLUIDFLOW OVER A NONLINEAR INCLINED EXTENDEDSURFACE
Predicting ultra-high-performance concrete compressive strength using gene expression programming method
Melting rheology in thermally stratified graphene-mineral oil reservoir (third-grade nanofluid) with slip condition
On the steady flow of non-newtonian fluid through multi-stenosed elliptical artery: A theoretical model
Magneto radiative and heat convective flow boundary layer in Maxwell fluid across a porous inclined vertical plate
Group invariant solutions of wave propagation in phononic materials based on the reduced micromorphic model via optimal system of Lie subalgebra
INFLUENCES OF RADIATIVE HEAT TRANSFER ON HYDROMAGNETIC HYBRID NANOFLUID FLOW THROUGH TWO ROTATING SURFACES
Dynamic stability analysis of metro tunnel in layered weathered sandstone

Impact of variable slip and wall properties on peristaltic flow of Eyring-Powell fluid through inclined channel: Artificial intelligence based Perturbation technique
Flowers Such as Ŭ-MoO3/CNTs/PANI Nanocomposites as Anode Materials for High-Performance Lithium Storage
Flowers Like Ŭ-MoO3/CNTs/PANI Nanocomposites as Anode Materials for High-Performance Lithium Storage
Importance of bioconvection flow on tangent hyperbolic nanofluid with entropy minimization
An overview of genome engineering in plants, including its scope, technologies, progress and grand challenges
Onset of Triple-Diffusive Convective Stability in the Presence of a Heat Source and Temperature Gradients: An Exact Method
Some integral inequalities for harmonical - -Godunova-Levin stochastic processes
Energy transfer in Carreau Yasuda liquid influenced by engine oil with Magnetic dipole using tri-hybrid nanoparticles
Enhancing Semantic Code Search with Deep Graph Matching
Two-dimensional nanofluid flow impinging on a porous stretching sheet with nonlinear thermal radiation and slip effect at the boundary enclosing energy perspective
Deep Machine Learning Based Possible Atmospheric and Ionospheric Precursors of the 2021 Mw 7.1 Japan Earthquake
Novel decision aid model for green supplier selection based on extended EDAS approach under pythagorean fuzzy Z-numbers
Performance analysis of WEDM during the machining of Inconel 690 miniature gear using RSM and ANN modeling approaches
Impact of suction with nanoparticles aggregation and joule heating on unsteady MHD stagnation point flow of nanofluids over horizontal cylinder
Artificial neural network scheme to solve the hepatitis B virus model
Implementation of Analytical Techniques for the Solution of Nonlinear Fractional Order Sawadaï Koteraï Ito Equation
Irreversibility analysis of radiative flow of Prandtl nanofluid over a stretched surface in Darcy-Forchheimer medium with activation energy and chemical reaction
Decision-making algorithm based on Pythagorean fuzzy environment with probabilistic hesitant fuzzy set and Choquet integral
Cattaneoï Christov heat-mass transfer rheology in third-grade nanoliquid flow confined by stretchable surface subjected to mixed convection
Investigation of solitary wave structures for the stochastic Nizhnikï Novikovï Veselov (SNNV) system
Entropy and thermal case description of monophase magneto nanofluid with thermal jump and ohmic heating employing finite element methodology
Prioritization of thermal energy storage techniques based on Einstein-ordered aggregation operators of q-rung orthopair fuzzy hypersoft sets
DCNNBT: a novel deep convolution neural network-based brain tumor classification model
Free convective oscillatory flow due to inclined perpendicular shield subject to the thermos-diffusion and suction effects
Numerical Analysis of Ternary Hybrid Nanofluid Flow over a Stagnation Region of Stretching/Shrinking Curved Surface with Suction and Lorentz Force
Simulation of Unsteady Transport Phenomena Using New Finite Volume Method
Redesigning the Serpent Algorithm by PA-Loop and its Image Encryption Application
Cu and Al2O3-based hybrid nanofluid flow through a porous cavity
Ultrasonic-assisted extraction of fenugreek flavonoids and its geographical-based comparative evaluation using green UHPLC-DAD analysis
Various nanoparticle shapes and quadratic velocity impacts on entropy generation and MHD flow over a stretching sheet with joule heating
Effect of heat transfer on peristaltic flow of Newtonian fluid through eccentric cylinders
Green synthesis, characterizations, and antibacterial activity of silver nanoparticles from Themeda quadrivalvis, in conjugation with macrolide antibiotics against respiratory pathogens
Energy transmission through carreau yasuda fluid influenced by ethylene glycol with activation energy and ternary hybrid nanocomposites by using a mathematical model
Metrology of Arï N2/O2 Mixture Atmospheric Pressure Pulsed DC Jet Plasma and its Application in Bio-Decontamination

Seismo Ionospheric Anomalies around and over the Epicenters of Pakistan Earthquakes
Assessing the impact of hyperviscosity on stenosis shape in COVID patients
New conservation laws of the Boussinesq and generalized Kadomtsevï Petviashvili equations via homotopy operator
Influence of Allee effect on the spatiotemporal behavior of a diffusive predatorï prey model with Crowleyï Martin type response function
Biological interactions between micro swimmers and cross fluid with inclined MHD effects in a complex wavy canal
Numerical Solution of Maxwell-Sutterby Nanofluid Flow inside a Stretching Sheet with Thermal Radiation, Exponential Heat Source/Sink, and Bioconvection
Designing of low cost solar air heater equipped with roughness of streamlined cross-section
Transportation of Fe3O4 -SiO2 -Al2O3 /EO and SiO2 -Al2O3 /EO nanoparticles in magnetized Reinerï Philippoff liquid, including modified fluxes via Galerkin algorithm: Significance of EMHD
Collapsing cylindrically symmetric filamentary stellar object
Numerical study of thermal enhancement in ZnO-SAE50 nanolubricant over a spherical magnetized surface influenced by Newtonian heating and thermal radiation
Quantitative and qualitative analyses of the mKdV equation and modeling nonlinear waves in plasma
Bioconvection effect in the Carreau nanofluid with Cattaneoï Christov heat flux using stagnation point flow in the entropy generation: Micromachines level study
Insight into the Significance of Nanoparticle Aggregation and Non-Uniform Heat Source/Sink on Titaniaï Ethylene Glycol Nanofluid Flow over a Wedge
Coexistence of Compressive and Rarefactive Positron-Acoustic Electrostatic Excitations in Unmagnetized Plasma with Kaniadakis Distributed Electrons and Hot Positrons
High power aqueous hybrid asymmetric supercapacitor based on zero-dimensional ZnS nanoparticles with two-dimensional nanoflakes CuSe2 nanostructures
A time fractional model of a Maxwell nanofluid through a channel flow with applications in grease
Swirling flow analysis of Eyring-Powell fluid between coaxial disks with variable property
Diverse optical solitons solutions of the fractional complex Ginzburg-Landau equation via two altered methods
Machine learning interpretable-prediction models to evaluate the slump and strength of fly ash-based geopolymer
Magnetohydrodynamics tangent hyperbolic nanofluid flow over an exponentially stretching sheet: Numerical investigation
Analysis of free and forced convections in the flow of radiative viscous fluid with oxytactic microorganisms
Crack Width Prediction of Self-Healing Engineered Cementitious Composite Using multi-expression programming
Multiferroics Made via Chemical Co-Precipitation That Is Synthesized and Characterized as Bi(1ī x)CdxFeO3
Synthesis of novel magnetic activated carbon for effective Cr(VI) removal via synergistic adsorption and chemical reduction
Significance of Dufour and Soret aspects on dynamics of water based ternary hybrid nanofluid flow in a 3D computational domain
Mechanical Characteristics of MHD of the Non-Newtonian Magnetohydrodynamic Maxwell Fluid Flow past a Bi-Directional Convectively Heated Surface with Mass Flux Condition
Biochar as a Green Sorbent for Remediation of Polluted Soils and Associated Toxicity Risks: A Critical Review
Mathematical analysis of heat and mass transfer on unsteady stagnation point flow of Riga plate with binary chemical reaction and thermal radiation effects
Mathematical model for numerical simulations of thermal energy of nano-fluid in a complex peristaltic transport within a curved passage:Pharmacological and engineering biomedical application
NUMERICAL SOLUTIONS OF NONLINEAR DELAY INTEGRO-DIFFERENTIAL EQUATIONS USING HAAR WAVELET COLLOCATION METHOD
Numerical simulation of energy transfer in radiative hybrid nanofluids flow influenced by second-order chemical reaction and magnetic field
The Microstructure and Properties of Ni-Si-La2O3 Coatings Deposited on 304 Stainless Steel by Microwave Cladding
Inspection of unsteady buoyancy and stagnation point flow incorporated by Ag-TiO2 hybrid nanoparticles towards a spinning disk with Hall effects

Recent advances in expansive soil stabilization using admixtures: current challenges and opportunities
Numerical analysis of magnetohydrodynamics Casson nanofluid flow with activation energy, Hall current and thermal radiation
Effect of thermal radiation on convective heat transfer in MHD boundary layer Carreau fluid with chemical reaction
Mathematical modelling of graphene-oxide/kerosene oil nanofluid via radiative linear extendable surface
Applications of triadic hybridized-cross nanomaterials suspended in engine oil using quadratic and linear convection with magnetic dipole
Hydrothermal mixed convection in a split-lid driven triangular cavity suspended by NEPCM
Significance of Entropy Generation and Nanoparticle Aggregation on Stagnation Point Flow of Nanofluid over Stretching Sheet with Inclined Lorentz Force
Numerical simulations of MHD generalized Newtonian fluid flow effects on a stretching sheet in the presence of permeable media: A finite difference-based study
Mathematical analysis of nonlinear thermal radiation and nanoparticle aggregation on unsteady MHD flow of micropolar nanofluid over shrinking sheet
Thermal transport and magnetohydrodynamics flow of generalized Newtonian nanofluid with inherent irreversibility between conduit with slip at the walls
Multiple attribute decision-making based on Fermatean fuzzy number
Investigation of Entropy Production with Thermal Analysis under Soret and Dufour Effects in MHD Flow between Convergent and Divergent Channels
Investigating regulated signaling pathways in therapeutic targeting of non-small cell lung carcinoma
Numerical analysis of magneto-radiated annular fin natural-convective heat transfer performance using advanced ternary nanofluid considering shape factors with heating source
Extraction of soliton for the confirmable time-fractional nonlinear Sobolev-type equations in semiconductor by -modal expansion method
Using oxy-hydrogen gas to enhance efficacy and reduce emissions of diesel engine
Efficient Cooling System for Lithium-Ion Battery Cells by Using Different Concentrations of Nanoparticles of SiO2-Water: A Numerical Investigation
Ternary Hybrid Nanofluid Flow Containing Gyrotactic Microorganisms over Three Different Geometries with Cattaneoï Christov Model
Analysis of the electrically conducting magnetohydrodynamic hybrid nanofluid flow past a convectively heated stretching surface with suction/injection and non-linear thermal radiation
Numerical simulation for peristalsis of Quemada fluid: A dynamic mesh approach
Increasing Transmitted Power with Cost Mitigation via Modified EHV Power Lines in Egyptian Grid
Electro-magnetic radiative flowing of Williamsondusty nanofluid along elongating sheet: Nanotechnology application
Numerical investigation of the influence of hybrid nano-fluid on heat transfer in semi-annular channel
Oblique propagation of arbitrary amplitude ion acoustic solitary waves in anisotropic electron positron ion plasma
Optimistic multigranulation roughness of a fuzzy set based on soft binary relations over dual universes and its application
Lie Symmetry and Exact Homotopic Solutions of Nonlinear Double Diffusion Problem
Chemically reactive hybrid nanofluid flow past a Riga plate with nonlinear thermal radiation and a variable heat source/sink
Techno-economic optimal planning of an industrial microgrid considering integrated energy resources
Sensitive analysis of soliton solutions of nonlinear Landau-Ginzburg-Higgs equation with generalized projective Riccati method
Economic and energy-exergy analysis of a novel in-plane solar segmented annular thermometric generator
Thermal investigation into the Oldroyd-B hybrid nanofluid with the slip and Newtonian heating effect: Atanganaï Baleanu fractional simulation
Impact of activation energy and variable properties on peristaltic flow through porous wall channel
Performance investigations for sustainability assessment of Hastelloy C-276 under different machining environments
Simultaneous features of MHD and radiation effects on the UCM viscoelastic fluid through a porous medium with slip conditions

Heat transfer analysis of the MHD stagnationpoint flow of third-grade fluid over a porous sheet with thermal radiation effect: An algorithmic approach
Double diffusion effect on the bio-convective magnetized flow of tangent hyperbolic liquid by a stretched nano-material with Arrhenius Catalysts
STRUCTURE PRESERVING SPLITTING TECHNIQUES FOR EBOLA REACTIONï DIFFUSION EPIDEMIC SYSTEM
Wind Energy Conversion Systems Based on a Synchronous Generator: Comparative Review of Control Methods and Performance
Multi objective optimization of nitrile rubber and thermosets modified bituminous mix using desirability approach
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
A novel numerical method for solving the Caputo-Fabrizio fractional differential equation
Developing a Two-Parameter Liu Estimator for the COM-Poisson Regression Model: Application and Simulation
Hydrothermal assisted synthesis of hierarchical SnO2 micro flowers with CdO nanoparticles based membrane for energy storage applications
Using beta regression modeling in medical sciences: a comparative study
Formulation and characterization of cleaner one-part novel fly ash/lime-based alkali-activated material
Free convection channel flow of couple stress casson fluid: A fractional model using Fourierô s and Fickô s laws
Comparative investigation of fractional bioconvection and magnetohydrodynamic flow induced by hybrid nanofluids through a channel
Numerical computations of blood flow through stenosed arteries via CFD tool OpenFOAM
Efects of activation energy and chemical reaction on unsteady MHD dissipative Darcyï Forchheimer squeezed fow of Casson fuid over horizontal channel
Numerical bio-convective assessment for rate type nanofluid influenced by Nield thermal constraints and distinct slip features
Biochar-Soil-Plant interactions: A cross talk for sustainable agriculture under changing climate
Electrochemical corrosion protection of neat and zinc phosphate modified epoxy coating: A comparative physical aging study on Al alloy 6101
Optimization of MHD Flow of Radiative Micropolar Nanofluid in a Channel by RSM: Sensitivity Analysis
Experimental assessment and modeling of solar air heater with V shape roughness on absorber plate
Aspects of Cattaneo-Christov heat flux in nonlinear radiative ternary, hybrid, and single mass diffusion past stretching surface; A comparative study
Double-diffusive magneto-natural convection of nanofluid in an enclosure equipped with a wavy porous cylinder in the local thermal non-equilibrium situation
Integrated Analysis of Lithosphere-Atmosphere-Ionospheric Coupling Associated with the 2021 Mw 7.2 Haiti Earthquake
A renovated Jaffrey-Hamel flow problem and new scaling statistics for heat, mass fluxes with Cattaneoï Christov heat flux model
Sustainable production of Low-Shrinkage fired clay bricks by utilizing waste plastic dust
Analysis of theThomson andTroian velocity slip for the fow of ternary nanofuid past a stretching sheet
Optimizing thermal characteristics and entropy degradation with the role of nanofluid flow configuration through an inclined channel
Sb-doped Tl8.67 Sn1.33-xSbx Te6 nanoparticles improve power factor and electronic charge transport
Exergy analyses and optimization of a single flash geothermal power plant combined with a trans-critical CO2 cycle using genetic algorithm and Nelderï Mead simplex method
Effects of Newtonian heating and heat generation on magnetohydrodynamics dusty fluid flow between two parallel plates
Thermal process simulation and multi-variable study/optimization of a novel geothermal-driven multi-generation process using bi-evaporator with zeotropic mixture
Effective role of mineral oil and biological nanomaterial on thermal energy influenced by magnetic dipole and nanoparticle shape
Spatio-temporal numerical modeling of stochastic predator-prey model

Energy-efficient clustering protocol for underwater wireless sensor networks using optimized glowworm swarm optimization
Reynolds nano fluid model for Casson fluid flow conveying exponential nanoparticles through a slandering sheet
Dynamics of Nonlinear Optics with Different Analytical Approaches
Investigation of bulk magneto-resistance crossovers in Iron doped Zinc-oxide using spectroscopic techniques
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Three-dimensional flower-like nanocomposites based on ZnO/NiO as effective electrode materials for supercapacitors
Design and advanced computational approaches based comprehensive structural parametric investigations of rotary-wing UAV imposed with conventional and hybrid computational composite materials: A validated investigation
The MHD grapheneī CMCī water nanofluid past a stretchable wall with Joule heating and velocity slip impact: Coolant application
Effect of Ca doping on the arbitrary canting of magnetic exchange interactions in La1-xCaxMnO3 nanoparticles
Triple diffusive Marangoni convection in a fluid-porous structure: Effects of a vertical magnetic field and temperature profiles
Optimal DG Allocation Based on Pay-back Period by a Proposed Modification for Coronavirus Herd Immunity Optimization
Impact of an effective Prandtl number model on the flow of nanofluids past an oblique stagnation point on a convective surface
A new implicit high-order iterative scheme for the numerical simulation of the two-dimensional time fractional Cable equation
Analysis of rotating-symmetric frame and MHD for peristaltic multiphase flow: An exact solution
Entropy analysis for a novel peristaltic flow in a curved heated endoscope: an application of applied sciences
Study of thermal variation in a longitudinal exponential porous fin wetted with / hexanol hybrid nanofluid using hybrid residual power series method
Groundwater potential zone mapping using geographic information systems and multi-influencing factors: A case study of the Kohat District, Khyber Pakhtunkhwa
New Estimators for the Probit Regression Model with Multicollinearity
A novel economic-cost and thermal comparative case study between segmented and non-segmented thin-film solar annular thermoelectric generator
Mixed convection within trapezoidal-wavy enclosure filled with nano-encapsulated phase change material: Effect of magnetohydrodynamics and wall waviness
Natural convection in nanofluid flow with chemotaxis process over a vertically inclined heated surface
4E Analyses of A Novel Multi-Generation System Based on Methanol-Steam Reforming Integrated With Scramjet Multi Cooling Cycle and Ammonia Synthesis
Effect of Cattaneo-Christov heat flux case on Darcy-Forchheimer flowing of Sutterby nanofluid with chemical reactive and thermal radiative impacts
Thermal impact of hybrid nanofluid due to inclined oscillatory porous surface with thermo-diffusion features
Exogenous ɔ-aminobutyric acid (GABA) mitigated salinity-induced impairments in mungbean plants by regulating their nitrogen metabolism and antioxidant potential
Explicit Soliton Structure Formation for the Riemann Wave Equation and a Sensitive Demonstration
Application of gene expression programming to predict the compressive strength of quaternary-blended concrete
Numerical study of perforated obstacles effects on the performance of solar parabolic trough collector
Evaluation of residual stresses in CO2 laser beam welding of SS316L weldments using FEA
Chromium toxicity, speciation, and remediation strategies in soil-plant interface: A critical review
Forecasting Compressive Strength and Electrical Resistivity of Graphite Based Nano-Composites Using Novel Artificial Intelligence techniques
Significance of non-uniform heat source/sink and cattaneo-christov model on hybrid nanofluid flow in a Darcy-forchheimer porous medium between two parallel rotating disks
Bioconvection Maxwell nanofluid flow over a stretching cylinder influenced by chemically reactive activation energy surrounded by a permeable medium
Insights into the relationship between ferroelectric and photovoltaic properties in CsGeI3 for solar energy conversion

Analysis of buoyancy assisting and opposing flows of colloidal mixture of titanium oxide, silver, and aluminium oxide nanoparticles with water due to exponentially stretchable surface
Heat and mass transport analysis in radiative time dependent flow in the presence of Ohmic heating and chemical reaction, viscous dissipation: An entropy modeling
An Investigation of Exhaust Gas Temperature of Aircraft Engine using LSTM
V-Mn-O aerogel composite-based high-energy Zn-ion hybrid supercapacitor
Thermal Examination for Bioconvective Maxwell Nanofluid Flow over Stretching Cylinder Subject to Coupled Chemically Reactive Activation Energy Effects
Numerical investigation of fractional Maxwell nano-fluids between two coaxial cylinders via the finite difference approach
Applications of Fractional Partial Differential Equations for MHD Casson Fluid Flow with Innovative Ternary Nanoparticles
Economic-effectiveness experimental case study for instant cooling of drinking-water using Peltier module
New Explicit Propagating Solitary Waves Formation and Sensitive Visualization of the Dynamical System
On Physical Analysis of Topological Co-Indices for Beryllium Oxide via Curve Fitting Models
Numerical Crank-Nicolson methodology analysis for hybridity aluminium alloy nanofluid flowing based-water via stretchable horizontal plate with thermal resistive effect
Irreversibility analysis in stagnation point flow of tri-hybrid nanofluid over a rotating disk; application of kinetic energy
Reciprocal Bª cklund transformations and travelling wave structures of some nonlinear pseudo-parabolic equations
Plastic concrete mechanical properties prediction based on experimental data
Ti2CTxï MXene aerogel based ultraï stable Znï ion supercapacitor
Modified Jackknife Ridge Estimator for the Conway-Maxwell-Poisson Model
On the Bioconvective Aspect of Viscoelastic Micropolar Nanofluid Referring to Variable Thermal Conductivity and Thermo-Diffusion Characteristics
Dry sliding wear characteristics of natural fibre reinforced poly-lactic acid composites for Engineering applications: Fabrication, properties and characterizations
Mixed convective heat transfer in a power-law fluid in a square enclosure: Higher order finite element solutions
Double diffusion in a porous medium of MHD Maxwell fluid with thermal radiation, heat generation and chemical reaction
Successive over relaxation (SOR) methodology for convective triply diffusive magnetic flowing via a porous horizontal plate with diverse irreversibilities
Thermal efficiency appraisal of hybrid nanocomposite flow over an inclined rotating disk exposed to solar radiation with Arrhenius activation energy
Heat and mass transfer of; nano-thin film flowing over a porous medium: A modified Buongiornoûs model
Signifcance of thermal radiation and bioconvection forWilliamson nanofuid transportation owing to cone rotation
Novel Approximate Analytical Solutions to the Nonplanar Modified Kawahara Equation and Modeling Nonlinear Structures in Electronegative Plasmas
Synthesis and Characterization of Ni Nanoparticles via the Microemulsion Technique and Its Applications for Energy Storage Devices
Wet-Chemical Synthesis of TiO2/PVDF Membrane for Energy Applications
On Perturbative Methods for Analyzing Third-Order Forced Van-der Pol Oscillators
Performance Evaluation of Virtualization Methodologies to Facilitate NFV Deployment
Multi-objective parametric optimization on the EDM machining of hybrid SiCp/Grp/aluminum nanocomposites using Non-dominating Sorting Genetic Algorithm (NSGA-II): Fabrication and microstructural characterizations
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. Biology 2022, 11, 1125
Mechanical Properties of Carbon Fiber Reinforced with Carbon Nanotubes and Graphene Filled Epoxy Composites: Experimental and Numerical Investigations
Investigating the Retrofitting Effect of Fiber-Reinforced Plastic and Steel Mesh Casting on Unreinforced Masonry Walls

Real-Time Dynamic and Multi-View Gait-Based Gender Classification Using Lower-Body Joints
Binder-free cupric-ion containing zinc sulfide nanoplates-like structure for flexible energy storage devices
Some Novel Results Involving Prototypical Computation of Zagreb Polynomials and Indices for SiO4 Embedded in a Chain of Silicates
A New CuSe-TiO2-GO Ternary Nanocomposite: Realizing a High Capacitance and Voltage for an Advanced Hybrid Supercapacitor
Simulation Studies on the Dissipative Modified Kawahara Solitons in a Complex Plasma
Numerical Investigation of Darcyï Forchheimer Hybrid Nanofluid Flow with Energy Transfer over a Spinning Fluctuating Disk under the Influence of Chemical Reaction and Heat Source
Multiple-Source Single-Output Buck-Boost DCï DC Converter with Increased Reliability for Photovoltaic (PV) Applications
Modeling the capacity of engineered cementitious composites for self-healing using AI-based ensemble techniques
Applications of variable thermal properties in Carreau material with ion slip and Hall forces towards cone using a non-Fourier approach via FE-method and mesh-free study
A Cryptographic Scheme for Construction of Substitution Boxes using Quantic Fractional Transformation
An Integrated Image Encryption Scheme Based on Elliptic Curve
Mathematical modeling and computational outcomes for the thermal oblique stagnation point investigation for non-uniform heat source and nonlinear chemical reactive flow of Maxwell nanofluid
Thermal performance of hybrid magnetized nanofluids flow subject to joint impact of ferro oxides/CNT nanomaterials with radiative and porous factors
Cross electromagnetic nanofluid flow examination with infinite shear rate viscosity and melting heat through Skan-Falkner wedge
Prediction models for marshall mix parameters using bio-inspired genetic programming and deep machine learning approaches: A comparative study
Analysis of water conveying aluminum oxide/silver nanoparticles due to mixed convection through four square cavity's variable hot (cold) walled
Identification of localized defects and fault size estimation of taper roller bearing (NBC_30205) with signal processing using the Shannon entropy method in MATLAB for automobile industries applications
Stability Analysis of Buoyancy Magneto Flow of Hybrid Nanofluid through a Stretchable/Shrinkable Vertical Sheet Induced by a Micropolar Fluid Subject to Nonlinear Heat Sink/Source
A Comprehensive State-of-the-Art Review on the Recent Developments in Greenhouse Drying
The shortfall and rise in energy deposition and combustion via OpenFOAM
Theoretical Investigation of Origin of Quantized Conduction in 2D Layered Ruddlesonï Popper Perovskite Heterostructure for the RRAM Applications
New soliton solutions and modulation instability analysis of fractional Huxley equation
Features of hybridized AA7072 and AA7075 alloys nanomaterials with melting heat transfer past a movable cylinder with Thompson and Troian slip effect
Assessment of Chambal River Water Quality Parameters: A MATLAB Simulation Analysis
Analysis of Nonlinear Convectionï Radiation in Chemically Reactive Oldroyd-B Nanoliquid Configured by a Stretching Surface with Robin Conditions: Applications in Nano-Coating Manufacturing
Fuzzy Control Modeling to Optimize the Hardness and Geometry of Laser Cladded Fe-Based MG Single Track on Stainless Steel Substrate Prepared at Different Surface Roughness
Explicit propagating electrostatic potential waves formation and dynamical assessment of generalized Kadomtsevï Petviashvili modified equal width-Burgers model with sensitivity and modulation instability gain spectrum visualization
Effectiveness of non-uniform heat generation (sinking) and thermal characterization of Carreau fluid flowing across nonlinear elongating cylinder: Convergence analysis aspect
Thermohydraulic and irreversibility assessment of Power-law fluid flow within wedge shape channel
Correction: Xiaomei et al. Intelligent Hybrid Deep Learning Model for Breast Cancer Detection. Electronics 2022, 11, 2767
A study of pressure driven fow in a vertical duct near two current carrying wires using fnite volume technique
Non-Fourier heat transfer in a moving longitudinal radiative-convective dovetail fin

A numerical analysis of the transport of modified hybrid nanofluids containing various nanoparticles with mixed convection applications in a vertical cylinder
A Numerical Confirmation of a Fractional-Order COVID-19 Modelôs Efficiency
Energy Saving Implementation in Hydraulic Press Using Industrial Internet of Things (IIoT)
Extension of Interaction Aggregation Operators for the Analysis of Cryptocurrency Market Under q-Rung Orthopair Fuzzy Hypersoft Set
An Intelligent Logic-Based Mold Breakout Prediction System Algorithm for the Continuous Casting Process of Steel: A Novel Study
Applied heat transfer modeling in conventional hybrid (Al2O3-CuO)/C2H6O2 and modified-hybrid nanofluids (Al2O3-CuO-Fe3O4)/C2H6O2 between slippery channel by using least square method (LSM)
Application of Ternary Nanoparticles in the Heat Transfer of an MHD Non-Newtonian Fluid Flow
Heat transfer enhancement in stagnation point flow of nanofluid towards a linear stretching sheet with induced magnetic field: A Keller box strategy
Study of an Optimized Micro-Gridôs Operation with Electrical Vehicle-Based Hybridized Sustainable Algorithm
Numerical simulations of hybrid nanofluid flow with thermal radiation and entropy generation effects
Lie point symmetry infinitesimals, optimal system, power series solution, and modulational gain spectrum to the mathematical Noyesï Field model of nonlinear homogeneous oscillatory Belousovï Zhabotinsky reaction
Energy transport analysis in natural convective flow of water:Ethylene glycol (50:50)-based nanofluid around a spinning down-pointing vertical cone
Structural Evaluation and Conformational Dynamics of ZNF141T474I Mutation Provoking Postaxial Polydactyly Type A
Possible seismo-ionospheric anomalies associated with the 2016 Mw 6.5 Indonesia earthquake from GPS TEC and Swarm satellites
Magnetic Field, Variable Thermal Conductivity, Thermal Radiation, and Viscous Dissipation Effect on Heat and Momentum of Fractional Oldroyd-B Bio Nano-Fluid within a Channel
Partial diferential equations of entropy analysis on ternary hybridity nanofuid fow model via rotating disk with hall current and electromagnetic radiative infuences
Analysis of Proposed and Traditional Boosting Algorithm with Standalone Classification Methods for Classifying Gene Expresssion Microarray Data Using a Reject Option
Spillover Connectedness among Global Uncertainties and Sectorial Indices of Pakistan: Evidence from Quantile Connectedness Approach
Partial differential equations modeling of thermal transportation in Casson nanofluid flow with arrhenius activation energy and irreversibility processes
Comprehensive examination of radiative electromagnetic fowing of nanofuids with viscous dissipation efect over a vertical accelerated plate
Magneto-hydraulic Casson fluid flow under the suction/blowing effects past over the porous stretching surfacev
In-situ construction of binder-free MnO2/MnSe heterostructure membrane for high-performance energy storage in pseudocapacitors
Recent Advancements in Evacuated Tube Solar Water Heaters: A Critical Review of the Integration of Phase Change Materials and Nanofluids with ETCs
Automated breast cancer detection by reconstruction independent component analysis (RICA) based hybrid features using machine learning paradigms
"Flow Characteristics of Heat and Mass for Nanofluid Under Different Operating Temperature over Wedge and Plate"
Heat and Mass Transfer Analysis of MHD Jeffrey Fluid over a Vertical Plate with CPC Fractional Derivative
Scaffold Fabrication Techniques of Biomaterials for Bone Tissue Engineering: A Critical Review
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Numerical simulation of melting heat transfer towards stagnation point region over a permeable shrinking surface
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Halogen Doping to Control the Band Gap of Ascorbic Acid: A Theoretical Study
Thermal radiative flux and energy of Arrhenius evaluation on stagnating point flowing of Carreau nanofluid: A thermal case study
Significance of Free Convection Flow over an Oscillating Inclined Plate Induced by Nanofluid with Porous Medium: The Case of the Prabhakar Fractional Approach
Evaluate Asymmetric Peristaltic Pumping Drug Carrying Image in Biological System: Measure Multiphase Flows in Biomedical Applications
Radiative and porosity effects of trihybrid Casson nanofluids with Bº dewadt flow and inconstant heat source by Yamada-Ota and Xue models
Thermal cooling efficacy of a solar water pump using Oldroyd-B (aluminum alloy-titanium alloy/engine oil) hybrid nanofluid by applying new version for the model of Buongiorno
Predictions on Structural and Electronic Properties to Synthesize Bismuth-Carbon Compounds in Different Periodicities
Entropy Minimization for Generalized Newtonian Fluid Flow between Converging and Diverging Channels
Measure and evaluate the hydrothermal flow of a Newtonian fluid in homogeneous permeable media equipped with a fin: A numerical approach
Numerical Study of the Electromagnetohydrodynamic Bioconvection Flow of Micropolar Nanofluid through a Stretching Sheet with Thermal Radiation and Stratification
Improved finite element method for flow, heat and solute transport of Prandtl liquid via heated plate
Improvements in the Engineering Properties of Cementitious Composites Using Nano-Sized Cement and Nano-Sized Additives
Role of Crystallographic Orientation of ß-Sn Grain on Electromigration Failures in Lead-Free Solder Joint: An Overview
Numerical heat performance of TiO2/Glycerin under nanoparticles aggregation and nonlinear radiative heat flux in dilating/squeezing channel
Optimization of Display Window Design for FemalesôClothes for Fashion Stores through Artificial Intelligence and Fuzzy System
Numerical and Computational Analysis of Magnetohydrodynamics over an Inclined Plate Induced by Nanofluid with Newtonian Heating via Fractional Approach
Performance Analysis, and Economic-Feasibility Evaluation of Single-Slope Single-Basin Domestic Solar Still under Different Water-Depths
Electrochemical corrosion resistance of aluminum alloy 6101 with cerium-based coatings in an alkaline environment
Study of Wear, Stress and Vibration Characteristics of Silicon Carbide Tool Inserts and Nano Multi-Layered Titanium Nitride-Coated Cutting Tool Inserts in Turning of SS304 Steels
Development of Efficient and Recyclable ZnOï CuO/gï C3N4 Nanocomposite for Enhanced Adsorption of Arsenic from Wastewater
New Solutions of Fractional Jeffrey Fluid with Ternary Nanoparticles Approach
Temperature-Dependent Density and Magnetohydrodynamic Effects on Mixed Convective Heat Transfer along Magnetized Heated Plate in Thermally Stratified Medium Using Keller Box Simulation
Transport properties of two dimensional dissipative fow of hybrid nanofuid with Joule heating and thermal radiation
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Fluid-structure interaction study of bio-magnetic fluid in a wavy bifurcated channel with elastic walls
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Effect of Dimpled Rib with Arc Pattern on Hydrothermal Characteristics of Al2O3-H2O Nanofluid Flow in a Square Duct
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Construction of Exact Solutions for Gilsonï Pickering Model Using Two Different Approaches

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IIoT: Traffic Data Flow Analysis and Modeling Experiment for Smart IoT Devices
New optimum solutions of nonlinear fractional acoustic wave equations via optimal homotopy asymptotic method-2 (OHAM-2)
Exact Fractional Solution by Nucciâs Reduction Approach and New Analytical Propagating Optical Soliton Structures in Fiber-Optics
Efficient Arsenate Decontamination from Water Using MgO-Itsit Biochar Composite: An Equilibrium, Kinetics and Thermodynamic Study
Second-order convergence analysis for Hall effect and electromagnetic force on ternary nanofluid flowing via rotating disk
Finite Element Methodology of Hybridity Nanofluid Flowing in Diverse Wavy Sides of Penetrable Cylindrical Chamber under a Parallel Magnetic Field with Entropy Generation Analysis
Soret and Dufour infuences on forced convection of Cross radiative nanofuid fowing via a thin movable needle
The Use of Marble Dust, Bagasse Ash, and Paddy Straw to Improve the Water Absorption and Linear Shrinkage of Unfired Soil Block for Structure Applications
Studies on the Utilization of Marble Dust, Bagasse Ash, and Paddy Straw Wastes to Improve the Mechanical Characteristics of Unfired Soil Blocks
Analyzing Reliability and Maintainability of Crawler Dozer BD155 Transmission Failure Using Markov Method and Total Productive Maintenance: A Novel Case Study for Improvement Productivity
A Critical Review on Hygrothermal and Sound Absorption Behavior of Natural-Fiber-Reinforced Polymer Composites
Applying the natural transform iterative technique for fractional high-dimension equations of acoustic waves
Transportation of thermal and velocity slip factors on three-dimensional dual phase nanomaterials liquid flow towards an exponentially stretchable surface
Mathematical Entropy Analysis of Natural Convection of MWCNTð Fe3O4/Water Hybrid Nanofluid with Parallel Magnetic Field via Galerkin Finite Element Process
Thermosolutal natural convective transport in Casson fluid flow in star corrugated cavity with Inclined magnetic field
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Improvement of the aerodynamic behaviour of the passenger car by using a combine of ditch and base bleed
The Enhancement of Energy-Carrying Capacity in Liquid with Gas Bubbles, in Terms of Solitons
In Situ Nitrogen Functionalization of 2D-Ti3C2Tx-MXenes for High-Performance Zn-Ion Supercapacitor
Research Trends of Board Characteristics and Firmsô Environmental Performance: Research Directions and Agenda
Fractional analysis of unsteady squeezing fow of Casson fuid via homotopy perturbation metho
Artificial Thermal Quenching and Salt Crystallization Weathering Processes for the Assessment of Long-Term Degradation Characteristics of Some Sedimentary Rocks, Egypt
Co-digestion of cow manure and food waste for biogas enhancement and nutrients revival in bio circular economy
Coupled energy and mass transport for non-Newtonian nanofluid flow through non-parallel vertical enclosure
Windmill Global Sourcing in an Initiative Using a Spherical Fuzzy Multiple-Criteria Decision Prototype
Experimental andTDDFT materials simulation of thermal characteristics and entropy optimized ofWilliamson Cu methanol and -Al2O3 methanol nanofuid fowing through solar collector
Efect of using spirulina algae methyl ester on the performance of a diesel engine with changing compression ratio: an experimental investigation
Plasma-Assisted Synthesis of Surfactant-Free and D-Fructose-Coated Gold Nanoparticles for Multiple Applications
Compressible unsteady steam fow and heat transport analysis: a numerical investigation
MHD Pulsatile Flow of Blood-Based Silver and Gold Nanoparticles between Two Concentric Cylinders
Nonlinear Thermal Diffusion and Radiative Stagnation Point Flow of Nanofluid with Viscous Dissipation and Slip Constrains: Keller Box Framework Applications to Micromachines
Galerkin finite element analysis for magnetized radiative-reactive Walters-B nanofluid with motile microorganisms on a Riga plate
Physical interpretation of nanofluid (Copper oxide, Silver) with slip and mixed convection effects: Applications of fractional derivatives

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Impact of Irregular Heat Sink/Source on the Wall Jet Flow and Heat Transfer in a Porous Medium Induced by a Nanofluid with Slip and Buoyancy Effects
Investigation of mixing viscoplastic fluid with a modified anchor impeller inside a cylindrical stirred vessel using Cassonï Papanastasiou model
Heat Transport during Colloidal Mixture of Water with Al2O3-SiO2 Nanoparticles within Porous Medium: Semi-Analytical Solutions
Predicting Angle of Internal Friction and Cohesion of Rocks Based on Machine Learning Algorithms
Predicting Infection Positivity, Risk Estimation, and Disease Prognosis in Dengue Infected Patients by ML Expert System
Peristaltic Phenomenon in an Asymmetric Channel Subject to Inclined Magnetic Force and Porous Space
Impact of homogeneous and heterogeneous reactions in the presence of hybrid nanofluid flow on various geometries
settings Numerical Computation for Gyrotactic Microorganisms in MHD Radiative Eyringï Powell Nanomaterial Flow by a Static/Moving Wedge with Darcyï Forchheimer Relation
A Paradigmatic Approach to find the Valency Based K-Banhatti & Redefined Zagreb Entropy for Niobium Oxide and Metal-Organic Framework
Exploring the fractional Hirota Maccari system for its soliton solutions via impressive analytical strategies
Significance of multiple solutions on the dynamics of ethylene glycol conveying gold and copper nanoparticles on a shrinking surface
settings Modeling and Mathematical Investigation of Blood-Based Flow of Compressible Rate Type Fluid with Compressibility Effects in a Microchannel
Effects of Yttrium Doping on Erbium-Based Hydroxyapatites: Theoretical and Experimental Study
Features of Radiative Mixed Convective Heat Transfer on the Slip Flow of Nanofluid Past a Stretching Bended Sheet with Activation Energy and Binary Reaction
Quadratic multiple regression model and spectral relaxation approach for carreau nanofluid inclined magnetized dipole along stagnation point geometry
Hall Current and Soret Effects on Unsteady MHD Rotating Flow of Second-Grade Fluid through Porous Media under the Influences of Thermal Radiation and Chemical Reactions
Diverse Variety of Exact Solutions for Nonlinear Gilsonï Pickering Equation
Evaluation and optimization of a new energy cycle based on geothermal wells, liquefied natural gas and solar thermal energy
Analysis of pure nanofluid (GO/engine oil) and hybrid nanofluid (GOï Fe3O4/engine oil): Novel thermal and magnetic features
Radiative couple stress Casson hybrid nanofluid flow over an inclined stretching surface due to nonlinear convection and slip boundaries
Material and wave relaxation phenomena effects on the rheology of Maxwell nanofluids
Dynamics of Stochastic Zika Virus with Treatment Class in Human Population via Spectral Method
Analytical and Experimental Study on Cold-Formed Steel Built-Up Sections for Bending
Unsteady Electro-Hydrodynamic Stagnating Point Flow of Hybridized Nanofluid via a Convectively Heated Enlarging (Dwindling) Surface with Velocity Slippage and Heat Generation
Synthesis and Characterization with Computational Studies of Metal Complexes of Methyl 2-((4-cyanophenyl)(hydroxy) methyl)acrylate: A New Biologically Active Multi-Functional Adduct

Application of Deep Learning Gated Recurrent Unit in Hybrid Shunt Active Power Filter for Power Quality Enhancement
Application of Nondestructive Techniques to Investigate Dissolvable Amorphous Metal Tungsten Nitride for Transient Electronics and Devices
Significance of magnetic field and Darcyï Forchheimer law on dynamics of Casson-Sutterby nanofluid subject to a stretching circular cylinder
Thermal energy development in magnetohydrodynamic flow utilizing titanium dioxide, copper oxide and aluminum oxide nanoparticles: Thermal dispersion and heat generating formularization
The Impact of Laminations on the Mechanical Strength of Carbon-Fiber Composites for Prosthetic Foot Fabrication
Variation in Vortex-Induced Vibration Phenomenon Due to Surface Roughness on Low- and High-Mass-Ratio Circular Cylinders: A Numerical Study
On the implementation of a new version of the Weibull distribution and machine learning approach to model the COVID-19 data
Quadratic regression estimation of hybridized nanoliquid flow using Galerkin finite element technique considering shape of nano solid particles
Irreversibility analysis of Ellis hybrid nanofluid with Surface catalyzed reaction and multiple slip effects on a horizontal porous stretching cylinder
Hall currents and EDL effects on multiphase wavy flow of Carreau fluid in a microchannel having oscillating walls: A numerical study
Dynamics of MHD second-grade nanofluid flow with activation energy across a curved stretching surface
Thermal mechanism in magneto radiated [(Al2O3-Fe3O4)/blood]hnf over a 3D surface: Applications in Biomedical Engineering
Thermal examination for the micropolar goldï blood nanofluid flow through a permeable channel subject to gyrotactic microorganisms
Recent Progress in the Design of Advanced MXene/Metal Oxides-Hybrid Materials for Energy Storage Devices
MHD Eyringï Powell nanofluid flow across a wedge with convective and thermal radiation
The radiative flow of the thin-film Maxwell hybrid nanofluids on an inclined plane in a porous space
Energy and Mass Transport through Hybrid Nanofluid Flow Passing over an Extended Cylinder with the Magnetic Dipole using Computational Approach
Mathematical analysis of casson fluid flow with energy and mass transfer under the influence of activation energy from a non-coaxially spinning disc
Fabrication of Graphene Sheets Using an Atmospheric Pressure Thermal Plasma Jet System
A Deep Learning-Based Approach for the Diagnosis of Acute Lymphoblastic Leukemia
DFT Study of Heteronuclear (TMFeO3)x Molecular Clusters (Where TM = Sc, Ti, Fe and x = 2, 4, 8) for Photocatalytic and Photovoltaic Applications
Improved Multi-Model Classification Technique for Sound Event Detection in Urban Environments
A Brief Assessment on Recent Developments in Efficient Electrocatalytic Nitrogen Reduction with 2D Non-Metallic Nanomaterials
A DDoS Vulnerability Analysis System against Distributed SDN Controllers in a Cloud Computing Environment
The Quest for Negative Electrode Materials for Supercapacitors: 2D Materials as a Promising Family
Newtonian heating effect in pulsating magnetohydrodynamic nanofluid flow through a constricted channel: A numerical study
Application of Neural Network and Dual-Energy Radiation-Based Detection Techniques to Measure Scale Layer Thickness in Oil Pipelines Containing a Stratified Regime of Three-Phase Flow
Motion of Particles around Time Conformal Dilaton Black Holes
Convective Heat and Mass Transport in Casson Fluid Flow in Curved Corrugated Cavity with Inclined Magnetic Field
Finite element analysis for thermal enhancement in power law hybrid nanofluid
Antibacterial Applications of Low-Pressure Plasma on Degradation of Multidrug Resistant V. cholera
Comprehensive Review of Solid State Transformers in the Distribution System: From High Voltage Power Components to the Field Application
Augmentation of Deep Learning Models for Multistep Traffic Speed Prediction
Forced convection of non-darcy flow of ethylene glycol conveying copper(II) oxide and titanium dioxide nanoparticles subject to lorentz force on wedges: Non-newtonian casson model

Galerkin Finite Element Process for Entropy Production and Thermal Evaluation of Third-Grade Fluid Flow: A Thermal Case Study
Thermal and solutal energy transport analysis in entropy generation of hybrid nanofluid flow over a vertically rotating cylinder
Water quality assessment of alpine glacial blue water lakes and glacial-fed rivers
Molecular Interaction and Magnetic Dipole Effects on Fully Developed Nanofluid Flowing via a Vertical Duct Applying Finite Volume Methodology
A Self-Similar Approach to Study Nanofluid Flow Driven by a Stretching Curved Sheet
An Optimized Fuzzy Based Control Solution for Frequency Oscillation Reduction in Electric Grids
Sensitivity analysis for Rabinowitsch fluid flow based on permeable artery constricted with multiple stenosis of various shapes
HealthGuard: An Intelligent Healthcare System Security Framework Based on Machine Learning
A Machine Learning-Based Framework for the Prediction of Cervical Cancer Risk in Women
A Security Policy Protocol for Detection and Prevention of Internet Control Message Protocol Attacks in Software Defined Networks
Recent Development of Heat and Mass Transport in the Presence of Hall, Ion Slip and Thermo Diffusion in Radiative Second Grade Material: Application of Micromachines
Predictive Performance Evaluation of the Kibria-Lukman Estimator
Quasi-Linearization Analysis for Entropy Generation in MHD Mixed-Convection Flow of Casson Nanofluid over Nonlinear Stretching Sheet with Arrhenius Activation Energy
Parametric Optimisation of Friction-Stir-Spot-Welded Al 6061-T6 Incorporated with Silicon Carbide Using a Hybrid WASPASï Taguchi Technique
Gyrotactic Motile Microorganisms Impact on Pseudoplastic Nanofluid Flow over a Moving Riga Surface with Exponential Heat Flux
Insight into the heat transfer of third-grade micropolar fluid over an exponentially stretched surface
Thermophysical features of Ellis hybrid nanofluid flow with surface-catalyzed reaction and irreversibility analysis subjected to porous cylindrical surface
A Comparative Study of Control Methods for X3D Quadrotor Feedback Trajectory Control
Exact solution of paraxial wave dynamical model with Kerr Media by using model expansion technique
Effect of particle size and weight fraction of SiC on the mechanical, tribological, morphological, and structural properties of Al-5.6Zn-2.2Mg-1.3Cu composites using RSM: fabrication, characterization, and modelling
Binder-Free Zincï Iron Oxide as a High-Performance Negative Electrode Material for Pseudocapacitors
Innovation in Green Building Sector for Sustainable Future
Cattaneoï Christov Double Diffusion (CCDD) on Sutterby Nanofluid with Irreversibility Analysis and Motile Microbes Due to a RIGA Plate
The Influence of Aligned MHD on Engine Oil-Based Casson Nanofluid with Carbon Nanotubes (Single and Multi-Wall) Passing through a Shrinking Sheet with Thermal Radiation and Wall Mass Exchange
Conventional and advanced exergy analysis of a single flash geothermal cycle
Numerical solution of Rosselandõs radiative and magnetic field effects for Cu-Kerosene and Cu water nanofluids of Darcy-Forchheimer flow through squeezing motion
A Novel Anomaly Detection System on the Internet of Railways Using Extended Neural Networks
Insightful into dynamics of magneto Reiner-Philippoff nanofluid flow induced by triple-diffusive convection with zero nanoparticle mass flux
Thermodynamic investigation of a single flash geothermal power plant powered by carbon dioxide transcritical recovery cycle
Self-Lubricating Pulsed Ion Beam-Assisted PTFE Coating of Titanium in Argon Discharge to Tailor Wear Resistance and Friction
A Proposed Three-Phase Induction Motor Drive System Suitable for Golf Cars
Investigation on Carbonation and Permeability of Concrete with Rice Hush Ash and Shop Solution Addition
Trace of Chemical Reactions Accompanied with Arrhenius Energy on Ternary Hybridity Nanofluid Past a Wedge
Load Management and Optimal Sizing of Special-Purpose Microgrids Using Two Stage PSO-Fuzzy Based Hybrid Approach

An Optimized Solution for Fault Detection and Location in Underground Cables Based on Traveling Waves
Thermally Dissipative Flow and Entropy Analysis for Electromagnetic Trihybrid Nanofluid Flow Past a Stretching Surface
Intelligent Hybrid Deep Learning Model for Breast Cancer Detection
Dynamics of Rotating Micropolar Fluid over a Stretch Surface: The Case of Linear and Quadratic Convection Significance in Thermal Management
Hepatitis B among University Population: Prevalence, Associated Risk Factors, Knowledge Assessment, and Treatment Management
Mixed convection flow of an electrically conducting viscoelastic fluid past a vertical nonlinearly stretching sheet
Numerical analysis of thermal transportation in nanodiamond and silver-based nanofluid using the Cattaneoï Christov heat flux model
Thermal characteristics of kerosene oil-based hybrid nanofluids (Ag-MnZnFe2O4): A comprehensive study
Numerical Hydromagnetic Thermal Mechanism in Chemically Reacting Fluid Over a Radiative Melting UPHSR With Resistive Heating
Heat Transport Exploration for Hybrid Nanoparticle (Cu, Fe3O4)-Based Blood Flow via Tapered Complex Wavy Curved Channel with Slip Features
Smart Android Based Home Automation System Using Internet of Things (IoT)
Thermal efficiency in hybrid (Al2O3-CuO/H2O) and tri-hybrid (Al2O3-CuO-Cu/H2O) 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 Nanoparticleôs Radius with a Significant Magnetic Field: The Case of Rotating Micropolar Fluid
Numerical simulation of ternary nanofluid flow with multiple slip and thermal jump conditions
COVID-19 Vaccines Related Userôs Response Categorization Using Machine Learning Techniques
Significance of Convection and Internal Heat Generation on the Thermal Distribution of a Porous Dovetail Fin with Radiative Heat Transfer by Spectral Collocation Method
Insight into the Role of Nanoparticles Shape Factors and Diameter on the Dynamics of Rotating Water-Based Fluid
Structural and Electronic Properties of SnO Downscaled to Monolayer
Linear and quadratic convection significance on the dynamics of MHD Maxwell fluid subject to stretched surface
MHD williamson nanofluid flow in the rheology of thermal radiation, joule heating, and chemical reaction using the Levenbergï Marquardt neural network algorithm
Significance of bio-convection, MHD, thermal radiation and activation energy across Prandtl nanofluid flow: A case of stretching cylinder
Multi-Stage Optimization of LHTESS by utilization of Y-shaped Fin in a rectangular enclosure
A Novel Decentralized Blockchain Architecture for the Preservation of Privacy and Data Security against Cyberattacks in Healthcare
Examining the relationship between gas channel dimensions of a polymer electrolyte membrane fuel cell with two-phase flow dynamics in a flooding situation using the volume of fluid method
Simulation of natural convection of n-Hexadecane paraffin inside a porous chamber
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
Numerical Investigation of the Fredholm Integral Equations with Oscillatory Kernels Based on Compactly Supported Radial Basis Functions
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
Evolutionary-Based Deep Stacked Autoencoder for Intrusion Detection in a Cloud-Based Cyber-Physical System
The Role of the Accumulated Surface Charge on Nanoparticles in Improving the Breakdown Strength of Liquid and Solid Insulation
Hydrothermal Synthesis of Binder-Free Metallic NiCo2O4 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
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
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