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College of Engineering Research Database

Name	Department	Title	Journal	Year
Samia Elattar	Industrial and Systems Engineering	Effectiveness of heat source/sink and Lorentz force constraints in a non-Newtonian peristaltic arterial blood hybrid nanofluid past an overlapping stenotic artery	Case Studies in Thermal Engineering	2025
Samia Elattar	Industrial and Systems Engineering	A fusion of neural, genetic and ensemble machine learning approaches for enhancing the engineering predictive capabilities of lightweight foamed reinforced concrete beam	Powder Technology	2024
Samia Elattar	Industrial and Systems Engineering	Reduce the delivery time and relevant costs in a chaotic requests system via lean-Heijunka model to enhance the logistic Hamiltonian route	Results in Engineering	2024
Samia Elattar	Industrial and Systems Engineering	Advancing tunnel equipment maintenance through data-driven predictive strategies in underground infrastructure	Computers and Geotechnics	2024
Samia Elattar	Industrial and Systems Engineering	Nano-integrating green and low-carbon concepts into ideological and political education in higher education institutions through K-means clustering	Heliyon	2024
Samia Elattar	Industrial and Systems Engineering	Evaluating the influence of Nano-GO concrete pavement mechanical properties on road performance and traffic safety using ANN-GA and PSO techniques	Environmental Research	2024

Samia Elattar	Industrial and Systems Engineering	Predicting concrete strength early age using a combination of machine learning and electromechanical impedance with nano-enhanced sensors	Environmental Research	2024
Samia Elattar	Industrial and Systems Engineering	Heat transfer characteristics of cobalt ferrite nanoparticles scattered in sodium alginate-based non-Newtonian nanofluid over a stretching/shrinking horizontal plane surface	Open Physics	2024
Samia Elattar	Industrial and Systems Engineering	External velocity and dissipative flow of clay nanoparticles on the lubricity of drilling fluids across a vertical surface in a Darcy-Brinkman porous medium with thermal radiation	Journal of Molecular Liquids	2024
Samia Elattar	Industrial and Systems Engineering	Irreversible mechanism and thermal cross-radiative flow in nanofluids driven along a stretching/shrinking sheet with the existence of possible turning/critical points	Frontiers in Materials	2024
Samia Elattar	Industrial and Systems Engineering	Utilizing nanotechnology to boost the reliability and determine the vertical load capacity of pile assemblies	Environmental Research	2024
Samia Elattar	Industrial and Systems Engineering	Radiative flow of clay nanoparticles on the lubricity of Williamson drilling fluids across a vertical surface in a Darcy-Brinkman porous medium	Chinese Journal of Physics	2024
Samia Elattar	Industrial and Systems Engineering	Eco-friendly nanotechnology in rheumatoid arthritis: ANFIS-XGBoost enhanced layered nanomaterials	Environmental Research	2024
Samia Elattar	Industrial and Systems Engineering	Computational study of cross-flow in entropy-optimized nanofluids	Nanotechnology Reviews	2024
Samia Elattar	Industrial and Systems Engineering	The bio-convection analysis for non-Newtonian nano-fluid due to accelerating surface	Journal of Thermal Analysis and Calorimetry	2024

Samia Elattar	Industrial and Systems Engineering	Features of hybridized AA7072 and AA7075 alloys nanomaterials with melting heat transfer past a movable cylinder with Thompson and Troian slip effect	Arabian Journal of Chemistry	2023
Samia Elattar	Industrial and Systems Engineering	Towards a sustainable, and economic production future: proposing a new process for methanol production based on renewable hydrogen	Journal of Cleaner Production	2023
Samia Elattar	Industrial and Systems Engineering	Stagnation point flow of a water-based graphene-oxide over a stretching/shrinking sheet under an induced magnetic field with homogeneous-heterogeneous chemical reaction	Journal of Magnetism and Magnetic Materials	2023
Samia Elattar	Industrial and Systems Engineering	A novel trigeneration model using landfill gas upgrading process and waste heat recovery: application of methanol, desalinated water, and oxygen production	Journal of Cleaner Production	2023
Samia Elattar	Industrial and Systems Engineering	Insight into the significance of nanoparticle aggregation and non-uniform heat source/sink on titania–ethylene glycol nanofluid flow over a wedge	Arabian Journal of Chemistry	2023
Samia Elattar	Industrial and Systems Engineering	Heat and mass transfer analysis of assisting and opposing radiative flow conveying ternary hybrid nanofluid over an exponentially stretching surface	Scientific Reports	2023
Samia Elattar	Industrial and Systems Engineering	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	Arabian Journal of Chemistry	2023
Samia Elattar	Industrial and Systems Engineering	Bioconvection Maxwell nanofluid flow over a stretching cylinder influenced by chemically reactive activation energy surrounded by a permeable medium	Frontiers in Physics	2023

Samia Elattar	Industrial and Systems Engineering	Exergoeconomic evaluation of a novel multigeneration process using solar driven Kalina cycle integrated with gas turbine cycle, double-effect absorption chiller, and liquefied natural gas cold energy recovery	Process Safety and Environmental Protection	2023
Samia Elattar	Industrial and Systems Engineering	Investigation of hydromagnetic bioconvection flow of Oldroyd-B nanofluid past a porous stretching surface	Biomass Conversion and Biorefinery	2023
Samia Elattar	Industrial and Systems Engineering	Influence of heat generation/absorption on mixed convection flow field with porous matrix in a vertical channel	Case Studies in Thermal Engineering	2023
Samia Elattar	Industrial and Systems Engineering	A Numerical Analysis of the Hybrid Nanofluid (Ag+TiO2+Water) Flow in the Presence of Heat and Radiation Fluxes	Energies	2023
Samia Elattar	Industrial and Systems Engineering	Scrutinization of waste discharge concentrations in Eyring-Powell nanofluid past a deformable horizontal plane surface	Water	2023
Samia Elattar	Industrial and Systems Engineering	Thermal investigation into the Oldroyd-B hybrid nanofluid with the slip and Newtonian heating effect: Atangana–Baleanu fractional simulation	Frontiers in Materials	2023
Samia Elattar	Industrial and Systems Engineering	Thermal enhancement in buoyancy-driven stagnation point flow of ternary hybrid nanofluid over vertically oriented permeable cylinder integrated by nonlinear thermal radiations	International Journal of Modern Physics B	2023
Samia Elattar	Industrial and Systems Engineering	Proposing and optimization of a parabolic trough solar collector integrated with a photovoltaic module layer	Applied Thermal Engineering	2023
Samia Elattar	Industrial and Systems Engineering	A comprehensive investigation of a water and energy-based waste integrated system: techno-eco-environmental-sustainability aspects	Chemosphere	2023

Samia Elattar	Industrial and Systems Engineering	Simulation of Prandtl nanofluid in the mixed convective flow of activation energy with gyrotactic microorganisms: Numerical outlook features of micro-machines	Micromachines	2023
Samia Elattar	Industrial and Systems Engineering	Impact of ferromagnetic nanoparticles on convectively heated radiative flow of Williamson nanofluid	Journal of the Indian Chemical Society	2023
Samia Elattar	Industrial and Systems Engineering	Comparative investigation of fractional bioconvection and magnetohydrodynamic flow induced by hybrid nanofluids through a channel	Frontiers in Materials	2023
Samia Elattar	Industrial and Systems Engineering	Prabhakar fractional simulation for thermal and solutal transport analysis of a Casson hybrid nanofluid flow over a channel with buoyancy effects	Journal of Magnetism and Magnetic Materials	2023
Samia Elattar	Industrial and Systems Engineering	Triple diffusive Marangoni convection in a fluid-porous structure: Effects of a vertical magnetic field and temperature profiles	Case Studies in Thermal Engineering	2023
Samia Elattar	Industrial and Systems Engineering	Onset of triple-diffusive convective stability in the presence of a heat source and temperature gradients: An exact method	AIMS Mathematics	2023
Samia Elattar	Industrial and Systems Engineering	Modify the injection machine mechanism to enhance the recycling of plastic waste mixed with MHD nanoparticles	Sustainability	2023
Samia Elattar	Industrial and Systems Engineering	Non-similar solutions of dissipative buoyancy flow and heat transfer induced by water-based graphene oxide nanofluid through a yawed cylinder	Lubricants	2023
Samia Elattar	Industrial and Systems Engineering	Air Quality Prediction and Multi-Task Offloading based on Deep Learning Methods in Edge Computing	Journal of Grid Computing	2023
Samia Elattar	Industrial and Systems Engineering	Parking Charges: Ingeniously Effective and Publicly Accepted in Riyadh?	Sustainability	2023

Samia Elattar	Industrial and Systems Engineering	Numerical Computation for Gyrotactic Microorganisms in MHD Radiative Eyring–Powell Nanomaterial Flow by a Static/Moving Wedge with Darcy–Forchheimer Relation. Micromachines 2022, 13, 1768		2022
Samia Elattar	Industrial and Systems Engineering	Heat Transport Exploration for Hybrid Nanoparticle (Cu, Fe3O4)—Based Blood Flow via Tapered Complex Wavy Curved Channel with Slip Features	Micromachines	2022
Samia Elattar	Industrial and Systems Engineering	Numerical computation for gyrotactic microorganisms in MHD radiative Eyring–Powell nanomaterial flow by a static/moving wedge with Darcy–Forchheimer relation	Micromachines	2022
Samia Elattar	Industrial and Systems Engineering	Computational assessment of hybrid nanofluid flow with the influence of hall current and chemical reaction over a slender stretching surface	Alexandria Engineering Journal	2022
Samia Elattar	Industrial and Systems Engineering	The effect of carbon dioxide emissions on the building energy efficiency	Fuel	2022
Samia Elattar	Industrial and Systems Engineering	Evaluation of artificial intelligence methods to estimate the compressive strength of geopolymers	Gels	2022
Samia Elattar	Industrial and Systems Engineering	Combined effects of chemical reaction and variable thermal conductivity on MHD peristaltic flow of Phan-Thien-Tanner liquid through inclined channel	Case Studies in Thermal Engineering	2022
Samia Elattar	Industrial and Systems Engineering	Impact of the KKL correlation model on the activation of thermal energy for the hybrid nanofluid (GO+ ZnO+ Water) flow through permeable vertically rotating surface	Energies	2022

Samia Elattar	Industrial and Systems Engineering	Artificial neural network joined with lattice boltzmann method to study the effects of mhd on the slip velocity of fmwnt/water nanofluid flow inside a microchannel	Engineering Analysis with Boundary Elements	2022
Samia Elattar	Industrial and Systems Engineering	A physical depiction of a semi-spherical fin unsteady heat transfer and thermal analysis of a fully wetted convective-radiative semi-spherical fin	Journal of the Indian Chemical Society	2022
Samia Elattar	Industrial and Systems Engineering	Nonlinear thermal diffusion and radiative stagnation point flow of nanofluid with viscous dissipation and slip constrains: Keller box framework applications to micromachines	Micromachines	2022
Samia Elattar	Industrial and Systems Engineering	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	Symmetry	2022
Samia Elattar	Industrial and Systems Engineering	Fractional simulations for thermal flow of hybrid nanofluid with aluminum oxide and titanium oxide nanoparticles with water and blood base fluids	Nanotechnology Reviews	2022
Samia Elattar	Industrial and Systems Engineering	Significance of free convection flow over an oscillating inclined plate induced by nanofluid with porous medium: The case of the prabhakar fractional approach	Micromachines	2022
Samia Elattar	Industrial and Systems Engineering	Features of radiative mixed convective heat transfer on the slip flow of nanofluid past a stretching bended sheet with activation energy and binary reaction	Energies	2022
Samia Elattar	Industrial and Systems Engineering	Forced convection three-dimensional Maxwell nanofluid flow due to bidirectional movement of sheet with zero mass flux	International Communications in Heat and Mass Transfer	2022

Samia Elattar	Industrial and Systems Engineering	Couple stress Darcy–Forchheimer nanofluid flow by a stretchable surface with nonuniform heat source and suction/injection effects	International Journal of Modern Physics B	2022
Samia Elattar	Industrial and Systems Engineering	Numerical and computational analysis of magnetohydrodynamics over an inclined plate induced by nanofluid with Newtonian heating via fractional approach	Symmetry	2022
Samia Elattar	Industrial and Systems Engineering	Thermal outcomes of Williamson pseudo-plastic nanofluid with microorganisms due to the heated Riga surface with bio-fuel applications	Waves in Random and Complex Media	2022
Samia Elattar	Industrial and Systems Engineering	Numerical modeling and symmetry analysis of a pine wilt disease model using the Mittag–Leffler kernel	Symmetry	2022
Samia Elattar	Industrial and Systems Engineering	Impact of an induced magnetic field on the stagnation-point flow of a water-based graphene oxide nanoparticle over a movable surface with homogeneous–heterogeneous and chemical reactions	Magnetochemistry	2022
Samia Elattar	Industrial and Systems Engineering	A stochastic intelligent approach for entropy optimized mixed convective second-order slip flow over a movable surface	Archive of Applied Mechanics	2022
Samia Elattar	Industrial and Systems Engineering	Building a digital twin simulator checking the effectiveness of TEG-ICE integration in reducing fuel consumption using spatiotemporal thermal filming handled by neural network technique	Processes	2022
Samia Elattar	Industrial and Systems Engineering	Neural artificial networking for a nonlinear darcy–forchheimer chemically reactive flow: Levenberg marquardt analysis	Modern Physics Letters B	2022
Samia Elattar	Industrial and Systems Engineering	Lie symmetry analysis of heat transfer in a liquid film over an unsteady stretching surface with viscous dissipation and external magnetic field	Waves in Random and Complex Media	2022

Samia Elattar	Industrial and Systems Engineering	A Multi-Objective Optimization of Secure Pull Manufacturing Systems	Applied Sciences	2022
Samia Elattar	Industrial and Systems Engineering	Theoretical analysis of e-commerce in global economic market in terms of benefits and disadvantageous	Smart Structures and Systems	2022
Samia Elattar	Industrial and Systems Engineering	Heat transport and the aspects of retardation time phenomenon in the flow of highly viscoelastic nanofluid with a Newtonian heating agent	Waves in Random and Complex Media	2022
Samia Elattar	Industrial and Systems Engineering	Pedestrian road crossing at uncontrolled mid-block locations: Does the refuge island increase risk?	Sustainability	2020
Samia Elattar	Industrial and Systems Engineering	The neural network revamping the process's reliability in deep lean via internet of things	Processes	2020
Samia Elattar	Industrial and Systems Engineering	Safety maintains lean sustainability and increases performance through fault control	Applied Sciences	2020
Samia Elattar	Industrial and Systems Engineering	Minimize the Route Length using heuristic method aided with Simulated Annealing to reinforce Lean management sustainability	Processes	2020
Samia Elattar	Industrial and Systems Engineering	Case Studies in Thermal Engineering		
Faiza Benabdallah	Industrial and Systems Engineering	Thermal and flow dynamics of blood-based Casson hybrid nanofluid under transient conditions	ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik	2024
Faiza Benabdallah	Industrial and Systems Engineering	Study of the time dependent MHD convective couple stress nanofluid flow across bidirectional periodically stretched frame using the homotopy analysis method	ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik	2024

Faiza Benabdallah	Industrial and Systems Engineering	Effects of using sinusoidal porous object (SPO) and perforated porous object (PPO) on the cooling performance of nano-enhanced multiple slot jet impingement for a conductive panel system	Propulsion and Power Research	2024
Faiza Benabdallah	Industrial and Systems Engineering	Bioconvective oscillatory flow of radiated viscoelastic nanofluids with thermophoresis and suction effects: Applications in pulsating thermal systems	Case Studies in Thermal Engineering	2024
Faiza Benabdallah	Industrial and Systems Engineering	Integrated operations planning model for the automotive wiring industry.	Heliyon	2024
Faiza Benabdallah	Industrial and Systems Engineering	Micromechanical modeling and experimental characterization of thermoplastic cork filler composites	Polymers and Polymer Composites	2024
Ghada Alsawah	Industrial and Systems Engineering	Analysis of Attitudes towards Food Waste in the Kingdom of Saudi Arabia Using Fuzzy Logic	Sustainability	2023
Ghada Alsawah	Industrial and Systems Engineering	Food waste, attitudes and preferences of young females: a case study in Saudi Arabia	Sustainability	2022
Ghada Alsawah	Industrial and Systems Engineering	Control Strategies for Energy Efficiency at PNU's Metro System. Energies 2021, 14, 6660	Energies	2021
Ghada Alsawah	Industrial and Systems Engineering	An Investigation into Conversion of a Fleet of Plug-in-Electric Golf Carts into Solar Powered Vehicles Using Fuzzy Logic Control	Energies	2021
Ghada Alsawah	Industrial and Systems Engineering	Control Strategies for Energy Efficiency at PNU's Metro System	Energies	2021
Imen safra	Industrial and Systems Engineering	EHD flow and heat transfer of hybrid nanofluid in a free surface cavity fitted with an internal hot obstacle	Case Studies in Thermal Engineering	2024
Imen safra	Industrial and Systems Engineering	Integrated operations planning model for the automotive wiring industry.	Heliyon	2024

Imen safra	Industrial and Systems Engineering	Micromechanical modeling and experimental characterization of thermoplastic cork filler composites	Polymers and Polymer Composites	2024
Imen safra	Industrial and Systems Engineering	Modeling and analysis of the triple diffusion unsteady flow of couple stress nanofluid with variable viscosity and distinct thermal sources	AIP Advances	2024
Imen safra	Industrial and Systems Engineering	Electro-osmotic effect on the heat and mass transfer of a viscoelastic nanofluid flow in a curved channel	Case Studies in Thermal Engineering	2023
Imen safra	Industrial and Systems Engineering	Analysis and optimisation of periodic inventory models for perishable items with a general lifetime	International Journal of Production Research	2023
Imen safra	Industrial and Systems Engineering	Effects of Temperature-Dependent Conductivity and Magnetic Field on the Radiated Carreau Nanofluid Flow and Entropy Generation	Symmetry	2023
Kaouther Ghachem	Industrial and Systems Engineering	Thermal and flow dynamics of blood-based Casson hybrid nanofluid under transient conditions	ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik	2024
Kaouther Ghachem	Industrial and Systems Engineering	Study of the time dependent MHD convective couple stress nanofluid flow across bidirectional periodically stretched frame using the homotopy analysis method	ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik	2024
Kaouther Ghachem	Industrial and Systems Engineering	Open physics: Radiative nanofluid flow over a slender stretching Riga plate under the impact of exponential heat source/sink		2024

Kaouther Ghachem	Industrial and Systems Engineering	Innovative modification process of a natural gas power plant using self-sufficient waste heat recovery and flue gas utilization for a CCHP-methanol generation application: A comprehensive multi-variable feasibility study	Process Safety and Environmental Protection	2024
Kaouther Ghachem	Industrial and Systems Engineering	EHD flow and heat transfer of hybrid nanofluid in a free surface cavity fitted with an internal hot obstacle	Case Studies in Thermal Engineering	2024
Kaouther Ghachem	Industrial and Systems Engineering	Effects of using magnetic field and double jet impingement for cooling of a hot oscillating object	Case Studies in Thermal Engineering	2024
Kaouther Ghachem	Industrial and Systems Engineering	Analysis of MHD Third-Grade Hybrid Nanofluid Model in Darcy-Forchheimer Porous Medium: Evaluation of the Thermal Performance of-Cylindrical Nanoparticles dispersed Ethylene Glycol Fluid	Case Studies in Thermal Engineering	2024
Kaouther Ghachem	Industrial and Systems Engineering	Effects of using sinusoidal porous object (SPO) and perforated porous object (PPO) on the cooling performance of nano-enhanced multiple slot jet impingement for a conductive panel system	Propulsion and Power Research	2024
Kaouther Ghachem	Industrial and Systems Engineering	Bioconvective oscillatory flow of radiated viscoelastic nanofluids with thermophoresis and suction effects: Applications in pulsating thermal systems	Case Studies in Thermal Engineering	2024
Kaouther Ghachem	Industrial and Systems Engineering	Integrated operations planning model for the automotive wiring industry.	Heliyon	2024
Kaouther Ghachem	Industrial and Systems Engineering	Effects of a conductive T-shaped partition on the phase change dynamics in a channel equipped with multiple encapsulated PCMs under different magnetic fields	Case Studies in Thermal Engineering	2024

Kaouther Ghachem	Industrial and Systems Engineering	Magneto-convection of nanofluid flow over multiple rotating cylinders in a confined space with elastic walls and ventilated ports	Heliyon	2024
Kaouther Ghachem	Industrial and Systems Engineering	Micromechanical modeling and experimental characterization of thermoplastic cork filler composites	Polymers and Polymer Composites	2024
Kaouther Ghachem	Industrial and Systems Engineering	Radiative nanofluid flow over a slender stretching Riga plate under the impact of exponential heat source/sink	Open Physics	2024
Kaouther Ghachem	Industrial and Systems Engineering	An unsteady bioconvective non-Newtonian nanofluid model with variable thermal properties and modified heat flux framework	International Journal of Modern Physics B	2024
Kaouther Ghachem	Industrial and Systems Engineering	Modeling and analysis of the triple diffusion unsteady flow of couple stress nanofluid with variable viscosity and distinct thermal sources	AIP Advances	2024
Kaouther Ghachem	Industrial and Systems Engineering	Nanofluid cooling of a hot rotating circular cylinder employing cross-flow channel cooling on the upper part and multi-jet impingement cooling on the lower part	AIP Advances	2024
Kaouther Ghachem	Industrial and Systems Engineering	Hydrodynamic instability of graphene oxide-water (GO/H2O) suspension with thermo-capillary layers of shear-thinning fluid	International Journal of Modern Physics B	2024
Kaouther Ghachem	Industrial and Systems Engineering	Thin film flow of blood-based hybrid nanoparticles subject to slip effects: A stability assessment	International Journal of Modern Physics B	2024
Kaouther Ghachem	Industrial and Systems Engineering	Application of nanofluids as cutting fluids in machining operations: A brief review		2023
Kaouther Ghachem	Industrial and Systems Engineering	Analysis of surface integrity of intermetallic composite based on titanium-aluminum machined by laser cutting	Optics & Laser Technology	2023

Kaouther Ghachem	Industrial and Systems Engineering	Thermal analysis on electromagnetic regulated peristaltic blood based graphane/diamond nanofluid flow with entropy optimization	Numerical Heat Transfer, Part B: Fundamentals	2023
Kaouther Ghachem	Industrial and Systems Engineering	Double diffusion Forchheimer flow of Carreau-Yasuda nanofluid with bioconvection and entropy generation: Thermal optimized analysis via non-Fourier model	Case Studies in Thermal Engineering	2023
Kaouther Ghachem	Industrial and Systems Engineering	Parametric assessment of a hybrid heat storage unit based on paired metal hydrides and phase change materials	Applied Thermal Engineering	2023
Kaouther Ghachem	Industrial and Systems Engineering	Computational analysis of Darcy-Forchheimer relation, reduced gravity, and external applied magnetic field influence on radiative fluid flow and heat transfer past a sphere: Finite difference method	Heliyon	2023
Kaouther Ghachem	Industrial and Systems Engineering	Electro-osmotic effect on the heat and mass transfer of a viscoelastic nanofluid flow in a curved channel	Case Studies in Thermal Engineering	2023
Kaouther Ghachem	Industrial and Systems Engineering	An Experimental Comparison of the Performance of Various Evacuated Tube Solar Collector Designs	Sustainability	2023
Kaouther Ghachem	Industrial and Systems Engineering	Thermal and physical impact of viscoplastic nanoparticles in a complex divergent channel due to peristalsis phenomenon: Heat generation and multiple slip effects	Heliyon	2023
Kaouther Ghachem	Industrial and Systems Engineering	Thermal and phase change process of nanofluid in a wavy PCM installed triangular elastic walled ventilated enclosure under magnetic field	Case Studies in Thermal Engineering	2023
Kaouther Ghachem	Industrial and Systems Engineering	Multiple slot nano-jet impingement cooling of a sinusoidal hot surface by using active rotating cylinders under magnetic field	Case Studies in Thermal Engineering	2023

Kaouther Ghachem	Industrial and Systems Engineering	The effects of reduced gravity and radiative heat transfer on the magnetohydrodynamic flow past a non-rotating stationary sphere surrounded by a porous medium	Symmetry	2023
Kaouther Ghachem	Industrial and Systems Engineering	Finite difference method to evaluate the characteristics of optically dense gray nanofluid heat transfer around the surface of a sphere and in the plume region	Mathematics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Numerical simulation of the effects of reduced gravity, radiation and magnetic field on heat transfer past a solid sphere using finite difference method	Symmetry	2023
Kaouther Ghachem	Industrial and Systems Engineering	Heat transfer enhancement of MHD natural convection in a star-shaped enclosure, using heated baffle and MWCNT–water nanofluid	Mathematics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Magnetohydrodynamic bioconvective flow of Williamson nanofluid over a moving inclined plate embedded in a porous medium	Mathematics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Parametric optimization of a truncated conical metal hydride bed surrounded by a ring of PCM for heat recovery	Materials	2023
Kaouther Ghachem	Industrial and Systems Engineering	Convective heat transfer and entropy generation for Nano-Jet impingement cooling of a moving hot surface under the effects of multiple rotating cylinders and magnetic field	Mathematics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Oscillatory Behavior of Heat Transfer and Magnetic Flux of Electrically Conductive Fluid Flow along Magnetized Cylinder with Variable Surface Temperature	Mathematics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Effects of Temperature-Dependent Conductivity and Magnetic Field on the Radiated Carreau Nanofluid Flow and Entropy Generation	Symmetry	2023

Kaouther Ghachem	Industrial and Systems Engineering	Three-Dimensional Unsteady Mixed Convection Flow of Non-Newtonian Nanofluid with Consideration of Retardation Time Effects	Mathematics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Variable chemical species and thermo-diffusion Darcy–Forchheimer squeezed flow of Jeffrey nanofluid in horizontal channel with viscous dissipation effects	Journal of the Indian Chemical Society	2023
Kaouther Ghachem	Industrial and Systems Engineering	Numerical simulations for radiated bioconvection flow of nanoparticles with viscous dissipation and exponential heat source	Journal of the Indian Chemical Society	2023
Kaouther Ghachem	Industrial and Systems Engineering	A lubricated stagnation point flow of nanofluid with heat and mass transfer phenomenon: Significance to hydraulic systems	Journal of the Indian Chemical Society	2023
Kaouther Ghachem	Industrial and Systems Engineering	Bioconvective Homann flow of tangent hyperbolic nanofluid due to spiraling disk with convective and zero mas flux constraints	Journal of the Indian Chemical Society	2023
Kaouther Ghachem	Industrial and Systems Engineering	Effective waste heat recovery from engine exhaust using fin prolonged heat exchanger with graphene oxide nanoparticles	Journal of the Indian Chemical Society	2023
Kaouther Ghachem	Industrial and Systems Engineering	Soret and Dufour aspect of viscoelastic fluid due to moving cylinder with viscous dissipation and convective boundary conditions	Journal of the Indian Chemical Society	2023
Kaouther Ghachem	Industrial and Systems Engineering	Thermal conductivity and mixed convection influence on the flow of viscoelastic fluid due to inclined cylinder	Journal of Magnetics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Investigation of Slip Conditions and Magnetic Force on Generalized 3D Flow with Heat Transfer Phenomenon Due To Lower Unbend Wall Channel	Journal of Magnetics	2023
Kaouther Ghachem	Industrial and Systems Engineering	Prabhakar fractional model for viscous transient fluid with heat and mass transfer and Newtonian heating applications	Waves in Random and Complex Media	2023

Kaouther Ghachem	Industrial and Systems Engineering	Thermal applications of copper oxide, silver, and titanium dioxide nanoparticles via fractional derivative approach	Waves in Random and Complex Media	2023
Kaouther Ghachem	Industrial and Systems Engineering	Stagnation point flow of chemically reactive nanofluid due to the curved stretching surface with modified Fourier and Fick theories	Waves in Random and Complex Media	2023
Kaouther Ghachem	Industrial and Systems Engineering	Nonlinear radiative oblique stagnation point flow of viscoelastic fluid due to stretching cylinder with polymer processing applications	Waves in Random and Complex Media	2023
Kaouther Ghachem	Industrial and Systems Engineering	Mathematical modeling and simulation of electromagnetohydrodynamic bio-nanomaterial flow through physiological vessels	Journal of Applied Biomaterials & Functional Materials	2022
Kaouther Ghachem	Industrial and Systems Engineering	Thermal aspect of boron nitride nanotubes (BNNT) and multiwall carbon nanotubes (MWCNT) with distinct physical features: Keller Box simulations		2022
Kaouther Ghachem	Industrial and Systems Engineering	CFD Aided Design: Case Studies		2022
Kaouther Ghachem	Industrial and Systems Engineering	Enhancing the performance of a greenhouse drying system by using triple-flow solar air collector with nano-enhanced absorber coating	Case Studies in Thermal Engineering	2022
Kaouther Ghachem	Industrial and Systems Engineering	Exergy and environmental analysis of an active greenhouse dryer with Al2O3 nano-embedded latent heat thermal storage system: An experimental study	Applied Thermal Engineering	2022
Kaouther Ghachem	Industrial and Systems Engineering	Simulation of biomass air gasification in a bubbling fluidized bed using aspen plus: A comprehensive model including tar production	ACS omega	2022
Kaouther Ghachem	Industrial and Systems Engineering	Impacts of rotating surface and area expansion during nanofluid convection on phase change dynamics for PCM packed bed installed cylinder	Alexandria Engineering Journal	2022

Kaouther Ghachem	Industrial and Systems Engineering	Pulsating nanofluid flow in a wavy bifurcating channel under partially active uniform magnetic field effects	International Communications in Heat and Mass Transfer	2022
Kaouther Ghachem	Industrial and Systems Engineering	Extraction of lyophilized olive mill wastewater using supercritical CO2 processes	Alexandria Engineering Journal	2022
Kaouther Ghachem	Industrial and Systems Engineering	A study on effectiveness of the variational theory in fluid dynamics applications	Alexandria Engineering Journal	2022
Kaouther Ghachem	Industrial and Systems Engineering	Numerical study of 3D MHD mixed convection and entropy generation in trapezoidal porous enclosure filled with a hybrid nanofluid: effect of zigzag wall and spinning inner cylinder	Nanomaterials	2022
Kaouther Ghachem	Industrial and Systems Engineering	Experimental study of thermal energy battery working with nano-enhanced phase change material	Case Studies in Thermal Engineering	2022
Kaouther Ghachem	Industrial and Systems Engineering	Coupled effects of using magnetic field, rotation and wavy porous layer on the forced convection of hybrid nanoliquid flow over 3D-backward facing step	Nanomaterials	2022
Kaouther Ghachem	Industrial and Systems Engineering	Double diffusive natural convection in a square cavity filled with a porous media and a power law fluid separated by a wavy interface	Mathematics	2022
Kaouther Ghachem	Industrial and Systems Engineering	Multiple impinging jet cooling of a wavy surface by using double porous fins under non-uniform magnetic field	Mathematics	2022
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation of the double diffusive convection in 3D trapezoidal solar still equipped with conductive fins	Mathematics	2022
Kaouther Ghachem	Industrial and Systems Engineering	Thermally radiative flow of Williamson nanofluid containing microorganisms with applications of heat source and activation energy	International Journal of Modern Physics C	2022

Kaouther Ghachem	Industrial and Systems Engineering	Thermal stability of hybrid nanofluid with viscous dissipation and suction/injection applications: dual branch framework	Journal of the Indian Chemical Society	2022
Kaouther Ghachem	Industrial and Systems Engineering	Experimental comparison of performance and emission characteristics of 4-stroke CI engine operated with Roselle and Jatropha biodiesel blends	Journal of the Indian Chemical Society	2022
Kaouther Ghachem	Industrial and Systems Engineering	CNT–water nanofluid magneto-convective heat transfer in a cubical cavity equipped with perforated partition	The European Physical Journal Plus	2021
Kaouther Ghachem	Industrial and Systems Engineering	Advancement of nanofluids in automotive applications during the last few years—a comprehensive review		2021
Kaouther Ghachem	Industrial and Systems Engineering	Enhancement of textile supply chain performance through optimal capacity planning		2021
Kaouther Ghachem	Industrial and Systems Engineering	Computational analysis of hybrid nanofluid enhanced heat transfer in cross flow micro heat exchanger with rectangular wavy channels	Case Studies in Thermal Engineering	2021
Kaouther Ghachem	Industrial and Systems Engineering	Heat transfer and fluid flow in a PCM-filled enclosure: Effect of inclination angle and mid-separation fin	International Communications in Heat and Mass Transfer	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation of heat transfer and melting process in a PCM capsule: Effects of inner tube position and Stefan number	Case Studies in Thermal Engineering	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical simulation of the impact of the heat source position on melting of a nano-enhanced phase change material	Nanomaterials	2021
Kaouther Ghachem	Industrial and Systems Engineering	Effects of magnetic field, binary particle loading and rotational conic surface on phase change process in a PCM filled cylinder	Case Studies in Thermal Engineering	2021

Kaouther Ghachem	Industrial and Systems Engineering	Analysis of Double-diffusive natural convection in a solar distiller embedded with PCM and cooled with external water stream	Journal of the Taiwan Institute of Chemical Engineers	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical study of heat transfer and flow structure over a microscale backstep	Alexandria Engineering Journal	2021
Kaouther Ghachem	Industrial and Systems Engineering	Solubility of Hydroxytyrosol in binary mixture of ethanol+ water from (293.15 to 318.15) K: Measurement, correlation, dissolution thermodynamics and preferential solvation	Alexandria Engineering Journal	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation and triple-parameters correlations development on the dynamic characteristics of a turbulent offset jet	Journal of Turbulence	2021
Kaouther Ghachem	Industrial and Systems Engineering	MHD mixed convection of –Cu–water hybrid nanofluid in a wavy channel with incorporated fixed cylinder	Journal of Thermal Analysis and Calorimetry	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation of electro-thermo-convection in a square enclosure with incorporated hot solid body	Journal of Thermal Analysis and Calorimetry	2021
Kaouther Ghachem	Industrial and Systems Engineering	Heat and mass transfer enhancement in triangular pyramid solar still using CNT-water nanofluid	Journal of Central South University	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation of Rayleigh–benard natural convection and entropy generation in a cubic cavity with discrete heat sources	Journal of Thermal Science and Engineering Applications	2021
Kaouther Ghachem	Industrial and Systems Engineering	利用碳纳米管-水纳米流体增强三角锥形太阳能蒸馏器的传热和传质	Journal of Central South University	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation of electro-thermo-convection in a square enclosure with incorporated hot solid body (vol 52, pg 931, 2020)	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	2021
Kaouther Ghachem	Industrial and Systems Engineering	Numerical investigation of heat transfer enhancement of an inclined heated offset jet	International Communications in Heat and Mass Transfer	2020

Kaouther Ghachem	Industrial and Systems Engineering	3D Rayleigh-Bénard-type natural convection in MWCNT-nanofluid-filled L-shaped enclosures with consideration of aggregation effect	Mathematical Methods in the Applied Sciences	2020
Kaouther Ghachem	Industrial and Systems Engineering	Solubility, solution thermodynamics, and preferential solvation of amygdalin in ethanol+ water solvent mixtures	Pharmaceuticals	2020
Kaouther Ghachem	Industrial and Systems Engineering	Numerical simulation of a microfluidic biosensor for C-reactive protein detection into a microchannel with considering electrothermal effect	Alexandria Engineering Journal	2020
Kaouther Ghachem	Industrial and Systems Engineering	Transient electrohydrodynamic convective flow and heat transfer of MWCNT-Dielectric nanofluid in a heated enclosure	Physics Letters A	2020
Kaouther Ghachem	Industrial and Systems Engineering	Simulation of Prosopis juliflora Air Gasification in Multistage Fluidized Process	Processes	2020
Kaouther Ghachem	Industrial and Systems Engineering	Numerical Study of Periodic Magnetic Field Effect on 3D Natural Convection of MWCNT-Water/Nanofluid with Consideration of Aggregation	Processes	2019
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Safety management implementation drivers for construction projects: a structural equation modelling approach	International journal of occupational safety and ergonomics	2023
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Key indicators for evaluating the performance of construction companies from the perspective of owners and consultants, Results in Engineering, 15, art. 100596, Seart. 2022	DOI: https://doi. org/10.1016/J. RINENG	2022
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Identification and categorisation of safety improvement practices in the construction industry: review study		2022
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Safety Management Implementation Drivers for Construction Projects: An SEM Approach.	International Journal of Occupational Safety and Ergonomics: JOSE	2022

Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Factors affecting the management of Riyadh's construction sector in the light of COVID-19	Heliyon	2022
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Key indicators for evaluating the performance of construction companies from the perspective of owners and consultants	Results in Engineering	2022
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Occupational health and safety practice in infrastructure projects	International journal of occupational safety and ergonomics	2022
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Influencing Factors of cost control and environmental sustainability in Saudi Arabia for low-rise building construction	Civil and Environmental Engineering	2022
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Risk management strategies in construction organizations	Open Civ. Eng. J	2021
Prof. Shabbab Alhammadi	Industrial and Systems Engineering	Concentration distribution, enrichment and controlling factors of metals in Al-Shuaiba Lagoon sediments, Eastern Red Sea, Saudi Arabia	Environmental Earth Sciences	2021
Nermeen Abdullah	Industrial and Systems Engineering	Effectiveness of heat source/sink and Lorentz force constraints in a non-Newtonian peristaltic arterial blood hybrid nanofluid past an overlapping stenotic artery	Case Studies in Thermal Engineering	2025
Nermeen Abdullah	Industrial and Systems Engineering	A fusion of neural, genetic and ensemble machine learning approaches for enhancing the engineering predictive capabilities of lightweight foamed reinforced concrete beam	Powder Technology	2024
Nermeen Abdullah	Industrial and Systems Engineering	Advancing tunnel equipment maintenance through data-driven predictive strategies in underground infrastructure	Computers and Geotechnics	2024
Nermeen Abdullah	Industrial and Systems Engineering	Nano-integrating green and low-carbon concepts into ideological and political education in higher education institutions through K-means clustering	Heliyon	2024

Nermeen Abdullah	Industrial and Systems Engineering	Evaluating the influence of Nano-GO concrete pavement mechanical properties on road performance and traffic safety using ANN-GA and PSO techniques	Environmental Research	2024
Nermeen Abdullah	Industrial and Systems Engineering	Predicting concrete strength early age using a combination of machine learning and electromechanical impedance with nano-enhanced sensors	Environmental Research	2024
Nermeen Abdullah	Industrial and Systems Engineering	Utilizing nanotechnology to boost the reliability and determine the vertical load capacity of pile assemblies	Environmental Research	2024
Nermeen Abdullah	Industrial and Systems Engineering	Bioconvective oscillatory flow of radiated viscoelastic nanofluids with thermophoresis and suction effects: Applications in pulsating thermal systems	Case Studies in Thermal Engineering	2024
Nermeen Abdullah	Industrial and Systems Engineering	Eco-friendly nanotechnology in rheumatoid arthritis: ANFIS-XGBoost enhanced layered nanomaterials	Environmental Research	2024
Nermeen Abdullah	Industrial and Systems Engineering	Computational study of cross-flow in entropy-optimized nanofluids	Nanotechnology Reviews	2024
Marwa Obayya	Biomedical Engineering	Improving laryngeal cancer detection using chaotic metaheuristics integration with squeeze-and-excitation resnet model	Health Information Science and Systems	2024
Marwa Obayya	Biomedical Engineering	Pneumonia detection in chest x-ray images using an optimized ensemble with XGBoost classifier	Multimedia Tools and Applications	2024
Marwa Obayya	Biomedical Engineering	Correction: Machine learning based skin lesion segmentation method with novel borders and hair removal techniques	PloS one	2024
Marwa Obayya	Biomedical Engineering	Automated gall bladder cancer detection using artificial gorilla troops optimizer with transfer learning on ultrasound images	Scientific Reports	2024

Marwa Obayya	Biomedical Engineering	Automatic Recognition of Cyberbullying in the Web of Things and social media using Deep Learning Framework	IEEE Transactions on Big Data	2024
Jamal Alsamri	Biomedical Engineering	Computer-aided diagnosis for lung cancer using waterwheel plant algorithm with deep learning	Scientific Reports	2024
Jamal Alsamri	Biomedical Engineering	Predictive Modeling of Real-Time Colorectal Cancer via Hyperparameter Configuration with Deep Learning Using Public Health Indicator Analysis	Fractals	2024
Jamal Alsamri	Biomedical Engineering	Optimizing point-of-sale services in MEC enabled near field wireless communications using multi-agent reinforcement learning	Computer Communications	2024
Jamal Alsamri	Biomedical Engineering	Automated gall bladder cancer detection using artificial gorilla troops optimizer with transfer learning on ultrasound images	Scientific Reports	2024
Jamal Alsamri	Biomedical Engineering	Unmasking GAN-Generated Faces with Optimal Deep Learning and Cognitive Computing-Based Cutting-Edge Detection System	Cognitive Computation	2024
Marwa Obayya	Biomedical Engineering	Enhancing land cover classification in remote sensing imagery using an optimal deep learning model	AIMS Mathematics	2024
Marwa Obayya	Biomedical Engineering	Machine Learning Driven Multi-Hazard Risk Framework for Coastal Resilience	Journal of South American Earth Sciences	2024
Marwa Obayya	Biomedical Engineering	Accelerating biomedical image segmentation using equilibrium optimization with a deep learning approach	AIMS Mathematics	2024
Jamal Alsamri	Biomedical Engineering	Machine Learning Driven Multi-Hazard Risk Framework for Coastal Resilience	Journal of South American Earth Sciences	2024
Marwa Obayya	Biomedical Engineering	Breast cancer histopathology image classification using an ensemble of optimized pretrained models with a trainable ensemble strategy classifier	Research on Biomedical Engineering	2024

Vidan Fathi Ghoneim	Biomedical Engineering	Automatic Detection of Multiple Sclerosis Using Genomic Expression		2023
Marwa Obayya	Biomedical Engineering	Sailfish Optimization with Deep Learning Based Oral Cancer Classification Model.	Comput. Syst. Sci. Eng.	2023
Marwa Obayya	Biomedical Engineering	Minimizing energy consumption for NOMA multi-drone communications in automotive-industry 5.0	Journal of King Saud University-Computer and Information Sciences	2023
Marwa Obayya	Biomedical Engineering	Cat and Mouse Optimizer with Artificial Intelligence Enabled Biomedical Data Classification.	Comput. Syst. Sci. Eng.	2023
Marwa Obayya	Biomedical Engineering	Predictive Multimodal Deep Learning-Based Sustainable Renewable and Non-Renewable Energy Utilization.	Comput. Syst. Sci. Eng.	2023
Marwa Obayya	Biomedical Engineering	Hyperparameter Optimizer with Deep Learning-Based Decision-Support Systems for Histopathological Breast Cancer Diagnosis. Cancers (Basel) 2023; 15		2023
Marwa Obayya	Biomedical Engineering	Improved Bat Algorithm with Deep Learning-Based Biomedical ECG Signal Classification Model	Computers, Materials & Continua	2023
Marwa Obayya	Biomedical Engineering	Hybridization of Metaheuristics Based Energy Efficient Scheduling Algorithm for Multi-Core Systems.	Computer Systems Science & Engineering	2023
Marwa Obayya	Biomedical Engineering	Computer and Information Sciences	Journal of King Saud University–Computer and Information Sciences	2023
Vidan Fathi Ghoneim	Biomedical Engineering	A hybrid deep learning approach for COVID-19 detection based on genomic image processing techniques	Scientific Reports	2023
Vidan Fathi Ghoneim	Biomedical Engineering	Genomic image representation of human coronavirus sequences for COVID-19 detection	Alexandria Engineering Journal	2023

Marwa Obayya	Biomedical Engineering	Hyperparameter optimizer with deep learning-based decision-support systems for histopathological breast cancer diagnosis	Cancers	2023
Marwa Obayya	Biomedical Engineering	Biomedical image analysis for colon and lung cancer detection using tuna swarm algorithm with deep learning model	IEEE Access	2023
Marwa Obayya	Biomedical Engineering	Henry gas solubility optimization algorithm based feature extraction in dermoscopic images analysis of skin cancer	Cancers	2023
Marwa Obayya	Biomedical Engineering	Modified salp swarm algorithm with deep learning based gastrointestinal tract disease classification on endoscopic images	IEEE Access	2023
Marwa Obayya	Biomedical Engineering	Internet of things-assisted smart skin cancer detection using metaheuristics with deep learning model	Cancers	2023
Marwa Obayya	Biomedical Engineering	Automated cardiovascular disease diagnosis using Honey Badger Optimization with modified deep learning model	IEEE Access	2023
Marwa Obayya	Biomedical Engineering	Artificial Intelligence for Traffic Prediction and Estimation in Intelligent Cyber-Physical Transportation Systems	IEEE Transactions on Consumer Electronics	2023
Marwa Obayya	Biomedical Engineering	Hybrid Metaheuristics with Deep Learning based Fusion Model for Biomedical Image Analysis	IEEE Access	2023
Marwa Obayya	Biomedical Engineering	A novel automated Parkinson's disease identification approach using deep learning and EEG	PeerJ Computer Science	2023
Marwa Obayya	Biomedical Engineering	Chaotic equilibrium optimizer-based green communication with deep learning enabled load prediction in Internet of Things environment	IEEE Access	2023
Marwa Obayya	Biomedical Engineering	Advancing retinoblastoma detection based on binary arithmetic optimization and integrated features	PeerJ Computer Science	2023

Jamal Alsamri	Biomedical Engineering	Automated cardiovascular disease diagnosis using Honey Badger Optimization with modified deep learning model	IEEE Access	2023
Marwa Obayya	Biomedical Engineering	Multi-objective quantum tunicate swarm optimization with deep learning model for intelligent dystrophinopathies diagnosis	Soft Computing	2023
Marwa Obayya	Biomedical Engineering	Artificial hummingbird algorithm with transfer-learning-based mitotic nuclei classification on histopathologic breast cancer images	Bioengineering	2023
Vidan Fathi Ghoneim	Biomedical Engineering	Harris Hawks Feature Optimization for Identifying the Informative Pathogens of Pediatric Sepsis		2022
Vidan Fathi Ghoneim	Biomedical Engineering	Computational Microarray Gene Selection Model Using Metaheuristic Optimization Algorithm for Imbalanced Microarrays Based on Bagging and Boosting Techniques		2022
Marwa Obayya	Biomedical Engineering	Modeling of Explainable Artificial Intelligence for Biomedical Mental Disorder Diagnosis.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	Energy Aware Data Collection with Route Planning for 6G Enabled UAV Communication.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	Detection of Lung Tumor Using ASPP-Unet with Whale Optimization Algorithm	CMC-COMPUTERS MATERIALS & CONTINUA	2022
Marwa Obayya	Biomedical Engineering	Coyote Optimization Using Fuzzy System for Energy Efficiency in WSN.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	Gaussian Optimized Deep Learning-based Belief Classification Model for Breast Cancer Detection.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	Intelligent Classification Model for Biomedical Pap Smear Images on IoT Environment.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	Intelligent Biomedical Electrocardiogram Signal Processing for Cardiovascular Disease Diagnosis.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	An Optimized Algorithm for CR-MIMO Wireless Networks.	Computers, Materials & Continua	2022

Marwa Obayya	Biomedical Engineering	Biomedical Osteosarcoma Image Classification Using Elephant Herd Optimization and Deep Learning.	Computers, Materials & Continua	2022
Marwa Obayya	Biomedical Engineering	Metaheuristic with Deep Learning Enabled Biomedical Bone Age Assessment and Classification Model	CMC-COMPUTERS MATERIALS & CONTINUA	2022
Marwa Obayya	Biomedical Engineering	Real-Time Facial Expression Recognition and Speech Tran-scripts over an on-premise Video Conference Application	International Journal of Telecommunications	2022
Marwa Obayya	Biomedical Engineering	Research Article Feature Subset Selection with Optimal Adaptive Neuro-Fuzzy Systems for Bioinformatics Gene Expression Classification		2022
Marwa Obayya	Biomedical Engineering	Research Article Arithmetic Optimization with RetinaNet Model for Motor Imagery Classification on Brain Computer Interface		2022
Vidan Fathi Ghoneim	Biomedical Engineering	A hybrid deep transfer learning of CNN-based LR-PCA for breast lesion diagnosis via medical breast mammograms	Sensors	2022
Marwa Obayya	Biomedical Engineering	Optimal deep neural network-driven computer aided diagnosis model for skin cancer	Computers and Electrical Engineering	2022
Marwa Obayya	Biomedical Engineering	Energy aware resource optimization using unified metaheuristic optimization algorithm allocation for cloud computing environment	Sustainable Computing: Informatics and Systems	2022
Marwa Obayya	Biomedical Engineering	Bayesian dynamic profiling and optimization of important ranked energy from gray level co-occurrence (GLCM) features for empirical analysis of brain MRI	Scientific Reports	2022
Marwa Obayya	Biomedical Engineering	Wavelet mutation with Aquila optimization-based routing protocol for energy-aware wireless communication	Sensors	2022

Marwa Obayya	Biomedical Engineering	Artificial intelligence driven biomedical image classification for robust rheumatoid arthritis classification	Biomedicines	2022
Marwa Obayya	Biomedical Engineering	AFD-StackGAN: Automatic mask generation network for face de-occlusion using StackGAN	Sensors	2022
Marwa Obayya	Biomedical Engineering	Metaheuristics based energy efficient task scheduling scheme for cyber-physical systems environment	Sustainability	2022
Marwa Obayya	Biomedical Engineering	Stable matching relay selection (SMRS) for TWR D2D network with RF/RE EH capabilities	IEEE Access	2022
Marwa Obayya	Biomedical Engineering	Machine learning based skin lesion segmentation method with novel borders and hair removal techniques	Plos one	2022
Marwa Obayya	Biomedical Engineering	Intelligent compression then encryption scheme for resource constrained sustainable and smart healthcare environment	Sustainable Energy Technologies and Assessments	2022
Marwa Obayya	Biomedical Engineering	An effective approach to detect and identify brain tumors using transfer learning	Applied Sciences	2022
Marwa Obayya	Biomedical Engineering	Explainable artificial intelligence enabled TeleOphthalmology for diabetic retinopathy grading and classification	Applied Sciences	2022
Marwa Obayya	Biomedical Engineering	Arithmetic optimization with retinanet model for motor imagery classification on brain computer interface	Journal of healthcare engineering	2022
Marwa Obayya	Biomedical Engineering	Optimal deep transfer learning based ethnicity recognition on face images	Image and Vision Computing	2022
Marwa Obayya	Biomedical Engineering	A Bayesian dynamic inference approach based on extracted gray level co-occurrence (GLCM) features for the dynamical analysis of congestive heart failure	Applied Sciences	2022
Marwa Obayya	Biomedical Engineering	Aquila Optimizer with Bayesian neural network for breast cancer detection on ultrasound images	Applied Sciences	2022

Marwa Obayya	Biomedical Engineering	Survival prediction of glioma patients from integrated radiology and pathology images using machine learning ensemble regression methods	Applied Sciences	2022
Vidan Fathi Ghoneim	Biomedical Engineering	ForkJoinPcc algorithm for computing the PCC matrix in gene co-expression networks	Electronics	2022
Marwa Obayya	Biomedical Engineering	Feature Subset Selection with Optimal Adaptive Neuro-Fuzzy Systems for Bioinformatics Gene Expression Classification	Computational Intelligence and Neuroscience	2022
Vidan Fathi Ghoneim	Biomedical Engineering	Evaluating deep and statistical machine learning models in the classification of breast cancer from digital mammograms	Int. J. Adv. Comput. Sci. Appl	2021
Vidan Fathi Ghoneim	Biomedical Engineering	Detection of COVID-19 using genomic image processing techniques		2021
Vidan Fathi Ghoneim	Biomedical Engineering	Studying genes related to the survival rate of pediatric septic shock		2021
Vidan Fathi Ghoneim	Biomedical Engineering	INVESTIGATION OF DIFFERENTIALLY EXPRESSED GENE RELATED TO HUNTINGTON'S DISEASE USING GENETIC ALGORITHM		2021
Vidan Fathi Ghoneim	Biomedical Engineering	Exploring the Efficiency of Hub Genes in Identification of Alzheimer Disease		2021
Marwa Obayya	Biomedical Engineering	Comparative analysis of resources utilization in some open-source videoconferencing applications based on webrtc		2021
Marwa Obayya	Biomedical Engineering	Conversion of videoconference speech into text based on webrtc and web speech apis		2021
Jamal Alsamri	Biomedical Engineering	Finite Element Modelling of Cochlear Electrode Arrays	Journal of Biomimetics, Biomaterials and Biomedical Engineering	2021
Marwa Obayya	Biomedical Engineering	Palmvein recognition using block-based WLD histogram of Gabor feature maps and deep neural network with Bayesian optimization	IEEE Access	2021

Marwa Obayya	Biomedical Engineering	Automatic Classification of Sleep Stages Using EEG Records.	MEJ-Mansoura Engineering Journal	2020
Marwa Obayya	Biomedical Engineering	Contactless palm vein authentication using deep learning with Bayesian optimization	IEEE access	2020
Vidan Fathi Ghoneim	Biomedical Engineering	ANOVAG3: A Hybrid Algorithm for Inferring Gene Regulatory Network Using Time Series Gene Expression Data.	Ingénierie des Systèmes d Inf.	2019
Marwa Obayya	Biomedical Engineering	Distributed Fog-to-Cloud computing system: A minority game approach	Concurrency and Computation: Practice and Experience	2019
Marwa Obayya	Biomedical Engineering	A CAD system for the early detection of lung nodules using computed tomography scan images.	International Journal of Online & Biomedical Engineering	2019
afnan alofi	Electrical Engineering	Pedestrian Safety by Intent Prediction: A Lightweight LSTM-Attention Architecture and Experimental Evaluations with Real-World Datasets		2024
afnan alofi	Electrical Engineering	Pedestrian Behavior Maps for Safety Advisories: CHAMP Framework and Real-World Data Analysis		2023
afnan alofi	Electrical Engineering	Champ: Crowdsourced, history-based advisory of mapped pedestrians for safer driver assistance systems	arXiv preprint arXiv:2301.05842	2023
Lamia Osman Widaa	Electrical Engineering	A Joint Resource Allocation Algorithm for D2D Communication	CMC-COMPUTERS MATERIALS & CONTINUA	2022
Lamia Osman Widaa	Electrical Engineering	Indoor Electromagnetic Radiation Intensity Relationship to Total Energy of Household Appliances	CMC-COMPUTERS MATERIALS & CONTINUA	2022
Lamia Osman Widaa	Electrical Engineering	Metaheuristic resource allocation strategy for cluster based 6g industrial applications	Comput. Mater. Contin	2022
Lilia El Amraoui	Electrical Engineering	Experimental and theoretical study of hydrogen electrochemical discharging by MmNi3.6Co0.6Al0.8 alloy	Hydroger Energy	2024

Lilia El Amraoui	Electrical Engineering	Optimizing efficiency of Vehicle-to-Grid system with intelligent management and ANN-PSO algorithm for battery electric vehicles	Electric Power Systems Research	2024
Lilia El Amraoui	Electrical Engineering	Simulation and rapid control prototyping of DC powered universal motors speed control: Towards an efficient operation in future DC homes	Engineering Science and Technology, an International Journal	2022
Lilia El Amraoui	Electrical Engineering	Adaptive λ-control strategy for plug-in HEV energy management using fast initial multiplier estimate	Applied Sciences	2022
Lilia El Amraoui	Electrical Engineering	Prospects for synergies between low-voltage DC microgrid technology and peer-to-peer energy trading markets	Sustainable Production and Consumption	2021
Lilia El Amraoui	Electrical Engineering	An approach for designing mixed light-emitting diodes to match greenhouse plant absorption spectra	Sustainability	2021
Lilia El Amraoui	Electrical Engineering	An efficient method for energy management optimization control: Minimizing fuel consumption for hybrid vehicle applications	Transactions of the Institute of Measurement and Control	2020
Lilia El Amraoui	Electrical Engineering	Analysis of rule-based parameterized control strategy for a HEV Hybrid Electric Vehicle		2019
Nouf Abd Elmunim	Electrical Engineering	Modeling the spread of infections during an epidemiological outbreak using an improved mathematical model	Chaos, Solitons & Fractals: X	2024
Nouf Abd Elmunim	Electrical Engineering	A novel MIMO antenna integrated with a solar panel and employing AI-equalization for 5G wireless communication networks	IEEE Access	2024
Nouf Abd Elmunim	Electrical Engineering	Robust Vehicle Detection Based on Improved You Look Only Once.	Computers, Materials & Continua	2023
Nouf Abd Elmunim	Electrical Engineering	Improving the Accuracy of the Global Navigation Satellite System		2023

Nouf Abd Elmunim	Electrical Engineering	Improve the Accuracy of the Global Navigation Satellite System		2023
Nouf Abd Elmunim	Electrical Engineering	Correction: Elnumin et al. Evaluating the Performance of IRI-2016 Using GPS-TEC Measurements over the Equatorial Region. Atmosphere 2021, 12, 1243	Atmosphere	2022
Nouf Abd Elmunim	Electrical Engineering	Evaluating the Performance of IRI-2016 Using GPS-TEC Measurements over the Equatorial Region (vol 12, 1243, 2021)	ATMOSPHERE	2022
Nouf Abd Elmunim	Electrical Engineering	Ionospheric delay investigation and forecasting		2021
Nouf Abd Elmunim	Electrical Engineering	Ionosphere	Ionospheric Delay Investigation and Forecasting	2021
Nouf Abd Elmunim	Electrical Engineering	Overview of the GPS	Ionospheric Delay Investigation and Forecasting	2021
Nouf Abd Elmunim	Electrical Engineering	Ionospheric delay forecasting	Ionospheric Delay Investigation and Forecasting	2021
Nouf Abd Elmunim	Electrical Engineering	Comparison of Ionospheric VTEC Predictions using the Holt-Winter and IRI-2016 Model in Equatorial Region		2021
Nouf Abd Elmunim	Electrical Engineering	Ionospheric Modelling and Forecasting	Ionospheric Delay Investigation and Forecasting	2021
Nouf Abd Elmunim	Electrical Engineering	Modelling the Ionospheric VTEC and Forecasting	Ionospheric Delay Investigation and Forecasting	2021
Nouf Abd Elmunim	Electrical Engineering	Evaluating the performance of IRI-2016 using GPS-TEC measurements over the equatorial region	Atmosphere	2021
Nouf Abd Elmunim	Electrical Engineering	Characterization of ionospheric delay and forecasting using GPS-tec over equatorial region	Annals of Geophysics	2020
Samia Larguech	Electrical Engineering	Nanofluid cooling of a hot rotating circular cylinder employing cross-flow channel cooling on the upper part and multi-jet impingement cooling on the lower part	AIP Advances	2024

Samia Larguech	Electrical Engineering	Moving-fuzzy sliding mode control of aircraft wing-rock motion	Archives of Electrical Engineering	2024
Samia Larguech	Electrical Engineering	Performance Enhancement of Adaptive Neural Networks Based on Learning Rate.	Computers, Materials & Continua	2023
Samia Larguech	Electrical Engineering	Precision Identification in Internet of Things Systems: The Design of a Chipless RFID Tag with 12 Bits of Data		2023
Samia Larguech	Electrical Engineering	Development of a New 24-Bit High-Performance Chipless RFID Tag for Accurate Identification in IoT Systems	IEEE Access	2023
Samia Larguech	Electrical Engineering	Convective heat transfer and entropy generation for Nano-Jet impingement cooling of a moving hot surface under the effects of multiple rotating cylinders and magnetic field	Mathematics	2023
Samia Larguech	Electrical Engineering	Particle swarm optimization based optimal design of six-phase induction motor for electric propulsion of submarines	Energies	2022
Samia Larguech	Electrical Engineering	Numerical investigation of the double diffusive convection in 3D trapezoidal solar still equipped with conductive fins	Mathematics	2022
Samia Larguech	Electrical Engineering	Heat and mass transfer enhancement in triangular pyramid solar still using CNT-water nanofluid	Journal of Central South University	2021
Samia Larguech	Electrical Engineering	Ultra capacitor-diesel hybrid intercity bus with solar co-generation concept	Journal of Green Engineering	2020
Samia Larguech	Electrical Engineering	Series Hybrid Power Train for Automotive Application	IOP Conference Series: Materials Science and Engineering	2020
Samia Larguech	Electrical Engineering	Robust adaptive controller for the diesel engine air path with input saturation	International Journal of Control, Automation and Systems	2019

Samia Larguech	Electrical Engineering	Adaptive Modified Sliding Mode Control for the Diesel Engine Air Path with Input SaturationAdaptive Modified Sliding Mode Control for the Diesel Engine Air Path with Input Saturation		2019
Shabana Urooj	Electrical Engineering	Algorithms-based beamforming for a narrowband signal received by an antenna array		2024
Shabana Urooj	Electrical Engineering	Evolution in Signal Processing and Telecommunication Networks		2024
Shabana Urooj	Electrical Engineering	Machine learning-based intelligent security framework for secure cloud key management	Cluster Computing	2024
Shabana Urooj	Electrical Engineering	Adaptive Switching Based Data-Communication Model for Internet of Healthcare Things Networks	IEEE Access	2024
Shabana Urooj	Electrical Engineering	An effective model for network selection and resource allocation in 5G heterogeneous network using hybrid heuristic-assisted multi-objective function	Expert Systems with Applications	2024
Shabana Urooj	Electrical Engineering	Derivation Analysis and Control of Multiport Flyback Converter with Lyapunov Function-Based Controller in Renewable Energy Systems Considering Circuit Parasitics	Arabian Journal for Science and Engineering	2024
Shabana Urooj	Electrical Engineering	Simulative study of raised cosine impulse function with Hamming grating profile based Chirp Bragg grating fiber	Journal of Optical Communications	2024
Shabana Urooj	Electrical Engineering	Differential coding scheme based FSO channel for optical coherent DP-16 QAM transceiver systems	Journal of Optical Communications	2024
Shabana Urooj	Electrical Engineering	Optical coherence tomography sensing: Image post processing for neuropathy detection	Measurement	2024
Shabana Urooj	Electrical Engineering	Moving-fuzzy sliding mode control of aircraft wing-rock motion	Archives of Electrical Engineering	2024
Shabana Urooj	Electrical Engineering	Optimization of Deep Neural Networks for Enhanced Efficiency in Small Scale Autonomous	Traitement du Signal	2024

Shabana Urooj	Electrical Engineering	Smart Quarantine Environment Privacy through IoT Gadgets Using Blockchain.	Intelligent Automation & Soft Computing	2023
Shabana Urooj	Electrical Engineering	Performance Enhancement of Adaptive Neural Networks Based on Learning Rate.	Computers, Materials & Continua	2023
Shabana Urooj	Electrical Engineering	Design of ANN Based Non-Linear Network Using Interconnection of Parallel Processor.	Comput. Syst. Sci. Eng.	2023
Shabana Urooj	Electrical Engineering	Robust Vehicle Detection Based on Improved You Look Only Once.	Computers, Materials & Continua	2023
Shabana Urooj	Electrical Engineering	Human emotion recognition models using machine learning techniques		2023
Shabana Urooj	Electrical Engineering	Single/Multijunction Solar Cell Model Incorporating Maximum Power Point Tracking Scheme Based on Fuzzy Logic Algorithm	Optimization Techniques in Engineering: Advances and Applications	2023
Shabana Urooj	Electrical Engineering	Design and Simulation of 24 GHz high gain pyramidal Horn Antenna for Bio-Radar Sensing Application		2023
Shabana Urooj	Electrical Engineering	Optimized S-Curve Transformation and Wavelets-Based Fusion for Contrast Elevation of Breast Tomograms and Mammograms. Diagnostics 2023, 13, 410		2023
Shabana Urooj	Electrical Engineering	A Deep Learning-Based Framework for Retinal Disease Classification. Healthcare 2023, 11, 212		2023
Shabana Urooj	Electrical Engineering	Cryptographic data security for reliable wireless sensor network	Alexandria Engineering Journal	2023
Shabana Urooj	Electrical Engineering	An evaluation of ANN algorithm performance for MPPT energy harvesting in solar PV systems	Sustainability	2023
Shabana Urooj	Electrical Engineering	A smart Alzheimer's patient monitoring system with IoT-assisted technology through enhanced deep learning approach	Knowledge and Information Systems	2023
Shabana Urooj	Electrical Engineering	Intelligent Bi-LSTM with architecture optimization for heart disease prediction in WBAN through optimal channel selection and feature selection	Biomedicines	2023

Shabana Urooj	Electrical Engineering	Assessment of barriers to wind energy development using analytic hierarchy process	Sustainability	2023
Shabana Urooj	Electrical Engineering	Computational analysis: unveiling the quantum algorithms for protein analysis and predictions	IEEE Access	2023
Shabana Urooj	Electrical Engineering	A Seven Level Fault Tolerant Switched Capacitor Boost Inverter With a Single DC Source	IEEE Access	2023
Shabana Urooj	Electrical Engineering	Development of a PV/Battery Micro-Grid for a Data Center in Bangladesh: Resilience and Sustainability Analysis	Sustainability	2023
Shabana Urooj	Electrical Engineering	Single Current Sensor-Based Speed Sensorless Vector Controlled PMSM Drive	IEEE Access	2023
Shabana Urooj	Electrical Engineering	Automatic Liver Cancer Detection Using Deep Convolution Neural Network	IEEE Access	2023
Shabana Urooj	Electrical Engineering	Investigation of CeO2 nanoparticles on the performance enhancement of insulating oils	Heliyon	2023
Shabana Urooj	Electrical Engineering	A deep learning-based framework for retinal disease classification	Healthcare	2023
Shabana Urooj	Electrical Engineering	An accurate metaheuristic mountain gazelle optimizer for parameter estimation of single-and double-diode photovoltaic cell models	Mathematics	2023
Shabana Urooj	Electrical Engineering	A Novel Prognostic Model Using Chaotic CNN with Hybridized Spoofing for Enhancing Diagnostic Accuracy in Epileptic Seizure Prediction	Diagnostics	2023
Shabana Urooj	Electrical Engineering	Design and Development of a Non-Contact ECG-Based Human Emotion Recognition System Using SVM and RF Classifiers	Diagnostics	2023
Shabana Urooj	Electrical Engineering	Enhancing Diagnostic Decision-Making: Ensemble Learning Techniques for Reliable Stress Level Classification	Diagnostics	2023
Shabana Urooj	Electrical Engineering	Atomic orbital search algorithm for efficient maximum power point tracking in partially shaded solar PV systems	Processes	2023

Shabana Urooj	Electrical Engineering	Large-Signal Stability of the Quadratic Boost Converter Using a Disturbance Observer-Based Sliding-Mode Control	Mathematics	2023
Shabana Urooj	Electrical Engineering	Optimized s-curve transformation and wavelets-based fusion for contrast elevation of breast tomograms and mammograms	Diagnostics	2023
Shabana Urooj	Electrical Engineering	Experimental analysis of advanced control technique for a five-phase direct matrix converter based on space vector PWM	IET Power Electronics	2023
Shabana Urooj	Electrical Engineering	Optimized RNN-based performance prediction of IoT and WSN-oriented smart city application using improved honey badger algorithm	Measurement	2023
Shabana Urooj	Electrical Engineering	ESP-UNet: Encoder-Decoder Convolutional Neural Network with Edge-Enhanced Features for Liver Segmentation.	Traitement du Signal	2023
Shabana Urooj	Electrical Engineering	Retinal Optical Coherence Tomography Image Denoising Using Modified Soft Thresholding Wavelet Transform	Traitement du Signal	2023
Shabana Urooj	Electrical Engineering	An Experimental Approach to Diagnose Covid-19 Using Optimized CNN.	Intelligent automation & soft computing	2022
Shabana Urooj	Electrical Engineering	Intelligent Fuzzy Based High Gain Non-Isolated Converter for DC Micro-Grids.	Computers, Materials & Continua	2022
Shabana Urooj	Electrical Engineering	A Constant Gain and Miniaturized Antipodal Vivaldi Antenna for 5G Communication Applications.	Computers, Materials & Continua	2022
Shabana Urooj	Electrical Engineering	2D Finite Element Analysis of Asynchronous Machine Influenced Under Power Quality Perturbations.	Computers, Materials & Continua	2022
Shabana Urooj	Electrical Engineering	Design of Contactless Capacitive Electrocardiogram (ECG) Belt System		2022
Shabana Urooj	Electrical Engineering	Energy Harvesting: Enabling IoT Transformations		2022

Shabana Urooj	Electrical Engineering	Recent Advances and Future Trends of IoT-Based Devices		2022
Shabana Urooj	Electrical Engineering	Islanding detection scheme for single-phase grid-connected solar photovoltaic system using support vector machine		2022
Shabana Urooj	Electrical Engineering	Nucleus Segmentation Using K-Means Clustering for Analysis of Microscopy Images		2022
Shabana Urooj	Electrical Engineering	Fully Differential Current-Mode Configuration for the Realization of First-Order Filters with Ease of Cascadability. Electronics 2022, 11, 2072		2022
Shabana Urooj	Electrical Engineering	Open Circuit Fault Mitigation in a Nine-Level Modified Packed E-Cell Inverter. Energies 2022, 15, 7976		2022
Shabana Urooj	Electrical Engineering	An Experimental Study and Statistical Analysis on the Electrical Properties of Synthetic Ester-Based Nanofluids. Energies 2022, 15, 9127		2022
Shabana Urooj	Electrical Engineering	Smart Monitoring IoT-Based System for Hydroponic Agriculture		2022
Shabana Urooj	Electrical Engineering	Hybrid sources powered electric vehicle configuration and integrated optimal power management strategy	IEEE Access	2022
Shabana Urooj	Electrical Engineering	Ensemble of weighted deep concatenated features for the skin disease classification model using modified long short term memory	Biomedical Signal Processing and Control	2022
Shabana Urooj	Electrical Engineering	Stochastic learning-based artificial neural network model for an automatic tuberculosis detection system using chest x-ray images	IEEE Access	2022
Shabana Urooj	Electrical Engineering	Improved mucoadhesion, permeation and in vitro anticancer potential of synthesized thiolated acacia and karaya gum combination: A systematic study	Molecules	2022

Shabana Urooj	Electrical Engineering	Particle swarm optimization based optimal design of six-phase induction motor for electric propulsion of submarines	Energies	2022
Shabana Urooj	Electrical Engineering	A detailed full-order discrete-time modeling and stability prediction of the single-phase dual active bridge DC-DC converter	IEEE Access	2022
Shabana Urooj	Electrical Engineering	An experimental study and statistical analysis on the electrical properties of synthetic ester-based nanofluids	Energies	2022
Shabana Urooj	Electrical Engineering	Reduced sensor-based harmonic resonance detection and its compensation in power distribution system with SAPF	IEEE Access	2022
Shabana Urooj	Electrical Engineering	Open Circuit Fault Mitigation in a Nine-Level Modified Packed E-Cell Inverter	Energies	2022
Shabana Urooj	Electrical Engineering	Grid-connected operation and control of single-phase asymmetrical multilevel inverter for distributed power generation	IET Renewable Power Generation	2022
Shabana Urooj	Electrical Engineering	Feature selection based on mud ring algorithm for improving survival prediction of children undergoing hematopoietic stem-cell transplantation	Mathematics	2022
Shabana Urooj	Electrical Engineering	Non-Inverting Quadratic Buck–boost converter with common ground configuration for supercapacitor applications	Processes	2022
Shabana Urooj	Electrical Engineering	Performance of a Vector-Controlled PMSM Drive without Using Current Sensors	Mathematics	2022
Shabana Urooj	Electrical Engineering	Fully differential current-mode configuration for the realization of first-order filters with ease of cascadability	Electronics	2022
Shabana Urooj	Electrical Engineering	AlGaInP optical source integrated with fiber links and silicon avalanche photo detectors in fiber optic systems	Indones J Electr Eng Comput Sci	2021

Shabana Urooj	Electrical Engineering	An Adaptive Neuro-Fuzzy based Methodology for Harmonic Analysis of a Power Transformer.	Journal of Power Technologies	2021
Shabana Urooj	Electrical Engineering	Applications of Bioelectrical Impedance Analysis in Diagnosis of Diseases: A Systematic Review.		2021
Shabana Urooj	Electrical Engineering	Frontiers in Energy Research: Smart Grids: The Role of Solar Energy and Smart Grids in Achieving Carbon Neutrality		2021
Shabana Urooj	Electrical Engineering	Wearable/Implantable Devices for Monitoring Systems		2021
Shabana Urooj	Electrical Engineering	Recent Development in Disease Diagnosis by Information, Communication and Technology	arXiv preprint arXiv:2102.03278	2021
Shabana Urooj	Electrical Engineering	New Gen Controlling Variable Using Dragonfly Algorithm in PV Panel. Energies 2021, 14, 790		2021
Shabana Urooj	Electrical Engineering	Design of Compact Super-Wideband Monopole Antenna for Spectrum Sensing Applications		2021
Shabana Urooj	Electrical Engineering	Secure and reliable wsn for internet of things: Challenges and enabling technologies	IEEE Access	2021
Shabana Urooj	Electrical Engineering	A highly compact antipodal Vivaldi Antenna array for 5G millimeter wave applications	Sensors	2021
Shabana Urooj	Electrical Engineering	IoT based electric vehicle application using boosting algorithm for smart cities	Energies	2021
Shabana Urooj	Electrical Engineering	Jellyfish search optimization algorithm for mpp tracking of pv system	Sustainability	2021
Shabana Urooj	Electrical Engineering	Enhanced Model Reference Adaptive Control Scheme for Tracking Control of Magnetic Levitation System	Energies	2021
Shabana Urooj	Electrical Engineering	New gen controlling variable using dragonfly algorithm in PV panel	Energies	2021
Shabana Urooj	Electrical Engineering	Energy efficient multi-hop routing protocol for smart vehicle monitoring using intelligent sensor networks	International Journal of Distributed Sensor Network	2021

Shabana Urooj	Electrical Engineering	Early detection of Alzheimer's disease using polar harmonic transforms and optimized wavelet neural network	Applied Sciences	2021
Shabana Urooj	Electrical Engineering	Power Management of Hybrid Grid System With Battery Deprivation Cost Using Artificial Neural Network	Frontiers in Energy Research	2021
Shabana Urooj	Electrical Engineering	Optimal design of power transformer with advance core material using ANSYS technique	European Journal of Electrical Engineering and Computer Science	2020
Shabana Urooj	Electrical Engineering	Non-linear filters for mammogram enhancement		2020
Shabana Urooj	Electrical Engineering	Healthcare applications of 3D printing in human implants: a review		2020
Shabana Urooj	Electrical Engineering	Contrast Stretching Techniques for Enhancement of Mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Human Visual System Based Unsharp Masking for Enhancement of Mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Computer-aided analysis of mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Region-Based and Feature Based Mammogram Enhancement Techniques	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020

Shabana Urooj	Electrical Engineering	Pattern recognition technique based islanding detection scheme in grid-connected PV System		2020
Shabana Urooj	Electrical Engineering	Non-Linear Enhancement Techniques for Mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Breast cancer and mammographic anomalies	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-Aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Mammogram Enhancement and Associated Challenges	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Quantitative metrics for mammographic image quality assessment	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Reactive power control strategy for single-phase grid-connected pv system		2020
Shabana Urooj	Electrical Engineering	Electrochemical Sensing for Examining Vitamin D3 based on MIP using NOVA 1.7 and Autolab PGSTAT 302N.	Journal of Clinical & Diagnostic Research	2020
Shabana Urooj	Electrical Engineering	Fabrication of Interdigitated Electrodes based biosensor and Prediction of Covid-19 cases using Linear Regression	Int. J. Disaster Recover. Bus. Contin	2020

Shabana Urooj	Electrical Engineering	Performance Evaluation of Mammogram Enhancement Approaches	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Design Objectives and Methodology for Computer-aided Analysis of Mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Non-Linear polynomial filters for contrast enhancement of mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Efficient Design Approaches for Sharp Pseudo-Quadrature Mirror Filter banks using Hybrid Evolutionary Algorithms		2020
Shabana Urooj	Electrical Engineering	Dynamic Gesture Controlled User Interface Expert HCI System using Adaptative Background Masking: An Aid to Prevent Cross Infections.	Journal of Clinical & Diagnostic Research	2020
Shabana Urooj	Electrical Engineering	Environmental Infrastructure for Cardiac Health Care		2020
Shabana Urooj	Electrical Engineering	Recapitulation: Main Contributions, Impact and Future Scope	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020

Shabana Urooj	Electrical Engineering	Mobile Mammography: Technological Improvements Using Non-Linear Polynomial Filters	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Mammogram Benchmarking Databases	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Non-Linear Polynomial Filters: Overview, Evolution and Proposed Mathematical Formulation		2020
Shabana Urooj	Electrical Engineering	State-of-the-Art Techniques for Mammogram Enhancement: A Comprehensive Discussion of Emerging Research Gaps and Remedial Solution	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Non-Linear Polynomial Filters for Edge Enhancement of Mammograms	Non-Linear Filters for Mammogram Enhancement: A Robust Computer-aided Analysis Framework for Early Detection of Breast Cancer	2020
Shabana Urooj	Electrical Engineering	Fuzzy clustering algorithm for enhancing reliability and network lifetime of wireless sensor networks	IEEE Access	2020
Shabana Urooj	Electrical Engineering	Design and implementation of quad-element super-wideband MIMO antenna for IoT applications	IEEE Access	2020
Shabana Urooj	Electrical Engineering	Design and implementation of quad-port MIMO antenna with dual-band elimination characteristics for ultra-wideband applications	Applied Sciences	2020

Shabana Urooj	Electrical Engineering	Design of quad-port MIMO/Diversity antenna with triple-band elimination characteristics for super-wideband applications	Sensors	2020
Shabana Urooj	Electrical Engineering	Design of quad-port ultra-wideband multiple-input-multiple-output antenna with wide axial-ratio bandwidth	Sensors	2020
Shabana Urooj	Electrical Engineering	Disjoint spanning tree based reliability evaluation of wireless sensor network	Sensors	2020
Shabana Urooj	Electrical Engineering	Analysis of autopilot system, integrated with modelling and comparison of different controllers with the system	Journal of Discrete Mathematical Sciences and Cryptography	2020
Shabana Urooj	Electrical Engineering	The effect of Azadirachta Indica extract on the soil nutrients and the NPK value determination by electrochemical sensor	Int. J. Biosen Bioelectron	2019
Shabana Urooj	Electrical Engineering	In Silico Antituberculosis Drug Designing Using UCSF Chimera	Ijeat	2019
Shabana Urooj	Electrical Engineering	A miniaturized low-profile UWB antenna for microwave imaging applications		2019
Shabana Urooj	Electrical Engineering	Model of smart gas sensor with the application of neural network for the detection of Gases in Active Environment		2019
Shabana Urooj	Electrical Engineering	Design and Implementation of the TGS822 Corrector		2019
Shabana Urooj	Electrical Engineering	Analysis of skin lesions using GMM-HMRF region-based segmentation technique		2019
Shabana Urooj	Electrical Engineering	Mathematical Modelling and Analysis of Graphene Using Simulink Technique		2019
Shabana Urooj	Electrical Engineering	A new computational framework for fast computation of a class of polar harmonic transforms	Journal of Signal Processing Systems	2019

Shabana Urooj	Electrical Engineering	Blood pressure control by deterministic learning based fuzzy logic control	International Journal of Engineering and Advanced Technology	2019
Shabana Urooj	Electrical Engineering	Development of noise free hybrid segmentation approach in MRI processing	International Journal of Engineering and Advanced Technology	2019
Shabana Urooj	Electrical Engineering	Blood pressure monitoring system using wireless technologies	Procedia Computer Science	2019
Shabana Urooj	Electrical Engineering	Fractional-order PID control for postoperative mean arterial blood pressure control scheme	Procedia Computer Science	2019
Shabana Urooj	Electrical Engineering	Statistical approach to compare image denoising techniques in medical MR images	Procedia Computer Science	2019
Shabana Urooj	Electrical Engineering	A review based on biodegradable and bioabsorbable stents for coronary artery disease	Procedia Computer Science	2019
Shaheen Kasim Mulani	Electrical Engineering	Synthesis of SGLT2 Inhibitors by Means of Fukuyama Coupling Reaction	The Journal of Organic Chemistry	2023
Shaheen Kasim Mulani	Electrical Engineering	New Synthesis of Diarylmethanes, Key Building Blocks for SGLT2 Inhibitors	ACS omega	2023
Shekaina Justin	Electrical Engineering	Hyperparameter Optimization Based Deep Belief Network for Clean Buses Using Solar Energy Model	Intelligent Automation & Soft Computing	2023
Shekaina Justin	Electrical Engineering	Design of metaheuristic optimization with deep-learning-assisted solar-operated on-board smart charging station for mass transport passenger vehicle	Sustainability	2023
Shekaina Justin	Electrical Engineering	Modeling of Artificial Intelligence-Based Automated Climate Control with Energy Consumption Using Optimal Ensemble Learning on a Pixel Non-Uniformity Metro System	Sustainability	2023
Shekaina Justin	Electrical Engineering	Classification of rainfall levels using various machine learning techniques		2021

Shekaina Justin	Electrical Engineering	Bionic Eyes for Visually Impaired Using Deep Learning		2021
Shekaina Justin	Electrical Engineering	Control Strategies for Energy Efficiency at PNU's Metro System. Energies 2021, 14, 6660		2021
Shekaina Justin	Electrical Engineering	An Investigation into Conversion of a Fleet of Plug-in-Electric Golf Carts into Solar Powered Vehicles Using Fuzzy Logic Control	Energies	2021
Shekaina Justin	Electrical Engineering	Control Strategies for Energy Efficiency at PNU's Metro System	Energies	2021
Shekaina Justin	Electrical Engineering	Skin lesion segmentation by pixel by pixel approach using deep learning	International journal of advances in signal and image sciences	2020
Shekaina Justin	Electrical Engineering	Series Hybrid Power Train for Automotive Application	IOP Conference Series: Materials Science and Engineering	2020
Shimaali Ali	Electrical Engineering	Estimation of the residual useful life of EV batteries using advanced hybrid learning tools	Electrical Engineering	2024
Shimaali Ali	Electrical Engineering	Data-driven stochastic dynamic economic dispatch for combined heat and power systems using particle swarm optimization	Energy Reports	2024
Shimaali Ali	Electrical Engineering	Parameter Identification of Switched Reluctance Motor SRM Using Exponential Swept-Sine Signal. Machines 2023, 11, 625		2023
Shimaali Ali	Electrical Engineering	Parameter Identification of Switched Reluctance Motor SRM Using Exponential Swept-Sine Signal	Machines	2023
Shimaali Ali	Electrical Engineering	Battery management system enhancement for lithium-ions battery cells using switched shunt resistor approach based on finite state machine control algorithm	Frontiers in Energy Research	2023
Shimaali Ali	Electrical Engineering	Power curve estimation of a wind turbine considering different weather conditions using machine learning algorithms		2022

Shimaali Ali	Electrical Engineering	A Multi-Objective Optimization of Secure Pull Manufacturing Systems	Applied Sciences	2022
Shimaali Ali	Electrical Engineering	Maximization of the power delivered from permanent magnet synchronous generator wind energy conversion system to the grid based on using moth flame optimization	Indonesian Journal of Electrical Engineering and Computer Science	2022
Shimaali Ali	Electrical Engineering	Switched capacitor based multi-level boost inverter for smart grid applications	International Journal of Electrical and Computer Engineering	2021
Shimaali Ali	Electrical Engineering	Cuckoo search algorithm based for tunning both PI and FOPID controllers for the DFIG-Wind energy conversion system	International Journal of Electrical and Computer Engineering (IJECE)	2020
Shimaali Ali	Electrical Engineering	Improving the delivered power quality from WECS to the grid based on PMSG control model	Int. J. Electr. Comput. Eng	2020
Shimaali Ali	Electrical Engineering	Lithium-ion battery modeling including degradation based on single-particle approximations	Batteries	2020
Shimaali Ali	Electrical Engineering	Modeling of the KOH-Polarization cells for mitigating the induced AC voltage in the metallic pipelines	Heliyon	2020
Shimaali Ali	Electrical Engineering	Energy Reports		2019
Yazan M. Allawi	Electrical Engineering	The Future of Healthcare: On Designing 5G & Beyond Indoor Neutral Host for Smart City Medical Facilities		2024
Yazan M. Allawi	Electrical Engineering	Cost-efficient citywide neutral host design: A micro-operator business model for expedited 5G and beyond network infrastructure rollout	IEICE Transactions on Communications	2024
Yazan M. Allawi	Electrical Engineering	Equilibrium stability in the triangular restricted four-body problem with non-spherical primaries	Chaos, Solitons & Fractals	2023
Yazan M. Allawi	Electrical Engineering	Classification of Trajectories in a Two-planet Exosystem Using the Generalized Three-body Problem	The Astrophysical Journal	2023

Yazan M. Allawi	Electrical Engineering	Revealing the properties of the out-of-plane points of equilibrium of the restricted 3-body problem with non-spherical radiating bodies	New Astronomy	2023
Yazan M. Allawi	Electrical Engineering	Orbital dynamics in the Hill problem with oblateness	Results in Physics	2023
Yazan M. Allawi	Electrical Engineering	A sustainable business model for a neutral host supporting 5G and beyond (5GB) ultra-dense networks: Challenges, directions, and architecture		2022