



CURRICULUM VITAE

Basic Information*

First Name:	Shreen
Last Name:	El-Sapa
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Personal Websites:

<https://www.damanhour.edu.eg/staff/pages/page.aspx?Staffid=310>

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Photo



Current Primary Affiliation/Institution

Department/Division:	Mathematics and Computer Science/ Applied Mathematics/ Fluid Mechanics
University/Institution:	Damanhour University/ Faculty of Science
City:	Damanhour
Country/Region:	Egypt

Highest Degree & Job Title

Highest Degree*:	Doctorate (Ph.D., M.D., etc.)
Job Title*:	Assistant Professor

Research Fields

- Fluid dynamics
- Porous medium
- Magnetohydrodynamics
- Thermophoresis
- Micropolar fluids
- Viscous fluids
- Couple stress fluids
- Numerical method
- Low Reynolds number
- Interaction between particles

Online Profiles

ORCID:	https://orcid.org/0000-0001-8811-4421
ResearchGate:	https://www.researchgate.net/profile/Shreen-El-Sapa
Google Scholar:	https://scholar.google.com/citations?hl=en&user=8GowXkEAAAAJ&view_op=list_works&sortby=pubdate
Publons:	https://www.webofscience.com/wos/author/record/N-4390-2017
SSRN:	https://hq.ssrn.com/submissions/MyPapers.cfm?partid=6446936&redirectFrom=true
Academia:	https://damanhour.academia.edu/ShreenElsapa

Education*

- 1- Bachelor's degree in science and education, very good, with first-class honors, Damanhour Branch, Alexandria University, 2002.
- 2- Complementary Academic courses, excellent with honor, in the Faculty of Science- Alex. University 2003-2005.
- 3- Master of Science degree in Mathematics (Applied Mathematics) from the Faculty of Science, Alexandria University, 27-7-2010.
- 4- Doctor of Philosophy degree in mathematics (applied mathematics) from the Faculty of Science, Alexandria University, 22-1-2015.

Work Experiences*

- 1- Teaching assistant in the Department of Mathematics - Faculty of Science and Education - Damanhour Branch, Alexandria University, 23-8-2003 to 25-4-2007.
- 2- Teaching assistant in the Department of Mathematics - Faculty of Science - Damanhour Branch, Alexandria University, 26-4-2007 to 18-10-2010.
- 3- Assistant lecturer in the Department of Mathematics - Faculty of Science - Damanhour Branch, Alexandria University, 19-10-2010 to 25-10-2010.

- 4- Assistant lecturer in the Department of Mathematics - Faculty of Science - Damanhour University, 26-10-2010 to 28-3-2015.
- 5- Lecturer (Assistant Professor) in the Department of Mathematics - Faculty of Science - Damanhour University, 29-3-2015 to 30-1-2021.
- 6- Assistant Professor (Associate Professor) in the Department of Mathematics - Faculty of Science - Damanhour University, 31-1-2021 until now.
- 7- Associate Professor in the Department of Mathematical Sciences- Faculty of Science – Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia, 112-2-2022 until now.

Other Skills and Additional Information

- Certificate of AUEPT in 30/12/2013
- Certificates of achievement from (FLDP)
- ICDL international from Faculty of Sport Education-Alex.
- Programs such as: ICTP, FORTRAN, DERIVE AND MATHCAD, MAPLE, MATLAB, Latex, MATHEMATICA.
- Member in Quality Committee in Faculty of Science at PNU, 1/1/2019.
- Executive Director Quality Assurance Unit Faculty of Science, at 19/4/2016.
- Supervisor of graduate research of title “Viscous Fluid” at 2017- Faculty of Science- Damanhour University.
- Certificate for become one of reviewer in journal of Applied and Computational Mathematics (ACM), January 29, 2018.
- Certificate of the self-assessment course from 2-4/5/2017 at Damanhour University.
- Certificate in reviewing a research paper “CREEPING FLOW OF MICROPOLAR FLUID PARALLEL TO THE AXIS OF CYLINDRICAL CELLS WITH POROUS LAYER”, European Journal of Mechanics / B Fluids, March, 2018.
- Certificate in publishing paper “Axisymmetric creeping motion caused by a spherical particle in a micropolar fluid within a nonconcentric spherical cavity, European Journal of Mechanics - B/Fluids 77, 211-220, 2019
- Certificate in publishing paper “Interaction between two rigid spheres moving in a micropolar fluid with slip surfaces, Journal of Molecular Liquids, 290 (111165).
- Certificate of “Basics in Research Methodology " at HSRC, building 410, Ground floor, Workshop number 0.313 on 27-2-2019, PNU.
- Certificate from department of mathematics- faculty of science- PNU for participate in supporting commotion program at 11/4/2019.
- Supervisor of graduate research of title “Kinematics and kinetics of fluid motion” at 2nd term of 2019- Faculty of Science- PNU, KSA.
- Certificate for publication of the article titled: "Effect of permeability of Brinkman flow on thermophoresis of a particle in a spherical cavity" in European Journal of Fluid Mechanics, 8-10-2019.
- Certificate from the Deanship of Scientific Research and Libraries at Princess Nourah bint Abdulrahman University on being named in **Stanford University’s 2024 list of the Top 2% of the World’s Most-Cited Scientists.**

- Certificate of **participation in the “Mentorship Program” during the second semester of the academic year 1446 AH / 2025 AD** from Career Development Center in Princess Nourah bint Abdulrahman University.
- Certificate for acceptance of publication in the Mathematics journal in MDPI, Slip-Driven Interaction of Dual Spheres in Couple Stress Fluids within a Permeable Medium, 2025.

Conferences

- Attendance the 3rd Symposium of the Fractional Calculus and Applications Group in 8/2/2011, the 4th in 11/7/2012 in Faculty of Science in Alexandria.
- Attendance the 6th. Sym. of fractional Calculus and Applications 4th. Aug. 2014 and 7th in 25/7/2015
- حضور مؤتمر يوم الرياضيات بقسم العلوم الرياضية 2020-2-20.
- International World conference. Id Post Covid-19, Business and Sustainability, Friday, August 7, 2020
- Participation in an international conference with the theme "Digital Transformation in Higher Education: Research, Grant, Academic, Curriculum and Accreditation", 18-7-2020.
- شهادة مشاركة في مؤتمر الروافد: التعليم الالكتروني بين تحديات الحاضر وتطلعات المستقبل، 2020/7/25-24
- شهادة مشاركة في المؤتمر الدولي الخامس لمعامل التأثير العربي، 2020/11/21-19
- 1st International E-Conference in Mathematical Sciences and Fractional Calculus (ICMSFC Feb 2021).
- 6th International Conference for Mathematics & Its Applications (ICMA24): Artificial Intelligent and Computational Mathematics, 31 Dec. 2024 to 1 Jan 2025.
- First International Conference of the Saudi Society, which will be held on 2–3, February, 2025 in Riyadh, Saudi Arabia (Paper+Workshop).
- First International **Conference** of the Saudi Society, **hold on** 2–3, February, 2025 in Riyadh, Saudi Arabia.
- 6th Conference on Mathematical Sciences and Applications (6th CMSA 2025) for presenting the talk titled "Effect of slippage on a translational motion of two interacting non-concentric spheres squeezed by couple stress fluid" in The Saudi Association for Mathematical Sciences in Held at King Saud University from April 15 to 17, 2025.

Editors' invitation as a reviewer

- 1- Invitation to be one of reviewer in journal of Applied and Computational Mathematics (ACM), January 29, 2018.
- 2- Invitation to join editorial board to Journal of Architectural Research and Development 21-2-2019.
- 3- Review a research paper “Theoretical Analysis of Single-Layered Porous Short Journal Bearing under the Lubrication of Micropolar Fluid ", Journal of the Brazilian Society of Mechanical Sciences and Engineering, June, 2019.
- 4- Review a research paper “Steady motion of an incompressible microstretch fluid between two rotating spheres with slip conditions ", International Journal of Advanced and Applied Sciences, June, 2019.
- 5- Review a research paper “Drag force of a porous particle moving axisymmetrically in a closed cavity of micropolar fluid ", Journal of Applied Mathematics and Computational Mechanics, 22, July, 2019.

- 6- Review a research paper "Influence of MHD on Micropolar Fluid Flow Past a Sphere Implanted in a Porous Media ", Indian Journal of Physics, 26, July, 2019.
- 7- Review a research paper Study of the thermo-magneto-hydrodynamic flow of micropolar-nanofluid in square enclosure using dynamic mode decomposition and proper orthogonal decomposition", European Journal of Mechanics / B Fluids, March, 10/2019.
- 8- Review manuscript # JPF-20-0053 entitled "Mathematical Modeling of Johnson-Segalman Fluid in Blade Coating Process" for Journal of Plastic Film and Sheeting, 21\9\2020.
- 9- Review invitation of "Effect of applying a magnetic field on the Flow through Porous Cylindrical Fibrous Beds," from journal Physics of Fluids, 28\9\2020
- 10- Review Manuscript ID JPF-20-0069, entitled "Analysis of flow and heat transfer over stretching (shrinking) and porous surfaces.", 30-Dec-2020, Journal of Plastic Film and Sheeting.
- 11- Review manuscript # JPF-21-0049 entitled "Impact of Nano Metallic Particles and Magnetic Force on Multi-Phase Flow of Third-Grade Fluid in Divergent Channel: Analytical Study" for Journal of Plastic Film and Sheeting. 2021-8-11
- 12- Reviewer Certificate for Journal of Plastic Film and Sheeting, 31-8-2021.
- 13- Review Manuscript ID JPF-21-0050 entitled "Theoretical Study of Transport of MHD Peristaltic Flow of Fluid under the Impact of Viscous Dissipation" for Journal of Plastic Film and Sheeting. 2021-8-15
- 14- Review Manuscript ID JPF-21-0055 entitled "Forced convective flow over a vertical sheet of variable thickness with non-uniform stretching (shrinking) and porous velocities" for Journal of Plastic Film and Sheeting, 4-9-2021.
- 15- Review Manuscript ID JPF-21-0079.R1 entitled "Blade coating analysis of Carreau fluid model with MHD and slip effects" for Journal of Plastic Film and Sheeting, 14-3-22.
- 16- Reviewing manuscript # JPF-21-0072.R1 entitled "Coating of a Viscoelastic Material onto a Moving Porous Web during Forward Roll Coating Process: A Theoretical Study" for Journal of Plastic Film and Sheeting, 14-3-22.
- 17- Review of manuscript for Journal of Applied Mathematics and Computational Mechanics. Title: An analytical study of couple stress fluid through a sphere with slip influence in the magnetic field, 15-4-2022.
- 18- Invitation to Review for Advances in Mechanical Engineering entitled "Numerical study of flow characteristics in the long path of drip emitters using Computation Fluid Dynamics model" has been submitted to Advances in Mechanical Engineering, 24-9-2021.
- 19- Reviewing manuscript # AME-21-1574 entitled "Current state and future trends in boundary layer control on lifting surfaces" for Advances in Mechanical Engineering, 27-4-2022.
- 20- Physics of Fluids: MS #POF22-AR-02038 Review, "Instability and bifurcations of electro-thermo-convection in a tilted square cavity filled with dielectric liquid," 10-5-22.
- 21- Manuscript ID: sensors-1742953
Title: Detection of Wire Feeding Speed and its Influence on Rotating Arc Welding Quality, 13-5-22.
- 22- Manuscript ID: energies-1747098
Title: Dynamic characteristics analysis of a 660MW ultra-supercritical circulating fluidized boiler, 13-5-2022.
- 23- Physics of Fluids: MS #POF22-AR-05681, 4-10-2022, "Dynamics of buoyancy-driven Stokes flow in a narrow annular space," by Yanzhong Wang, Yaping Zhang, Kai Yang, Boji Lu, and Hao Gao.
- 24- Physics of Fluids: POF22-AR-05100, 8-9-2022, "Families of superposable planar exact solutions for couple stress fluid flows," by Subin Joseph.

- 25- Invitation to Review for ZAMM (zamm.202200218),1-8-2022, has been submitted to Zeitschrift für Angewandte Mathematik und Mechanik.
- 26- Physics of Fluids: POF22-AR-02038 Request to Review, "Instability and bifurcations of electro-thermo-convection in a tilted square cavity filled with dielectric liquid," by Hao-Kui Jiang, Yu Zhang, Zi-Yao Zhang, Kang Luo, and Hong-Liang Yi ,2-5-2022.
- 27- Physics of Fluids: POF22-AR-00171 Request to Review, 14-1-2022, "Flow and heat transfer characteristics of conductive gases in circular tubes under applied magnetic fields with different orientations," by Qijin Zhao, Xianghua Bai, Baoquan Mao, and Zili Liao
- 28- Journal Title: International Journal of Modern Physics B
Submission No.: JPB20078188R1
Submission Title: Dual rotations of rods on thermosolutal convection in a porous cavity suspended by nano-encapsulated phase change materials
Author's Affiliation: King Khalid University, 13-10-2022
- 29- Manuscript ID JPF-22-0055 entitled "Theoretical analysis of roll-over-web coating of a non-Newtonian polymer using lubrication approximation theory" has been submitted to Journal of Plastic Film and Sheeting, 25-9-2022.
- 30- Pramana. 29-6-2022, Manuscript Number: PRAM-D-22-00423,
Title: Torque on the slow rotation of a slip spheroid in a Brinkman medium
- 31- "Axisymmetric Stagnation Flow of Micropolar Fluid an Annular Region between Two Cylinders in a Porous Medium", Thank you for submitting your report to Scientific Reports, 22-5-2022.
- 32- 19-4-2022, Manuscript ID AME-21-1574 entitled "Current state and future trends in boundary layer control on lifting surfaces" has been submitted to Advances in Mechanical Engineering.
- 33- 4-2-2022, Journal of Applied Mathematics and Computational Mechanics. Title: An analytical study of couple stress fluid through a sphere with slip influence in the magnetic field,
Author(s): Krishna Prasad Madasu, Priya Sarkar.
- 34- Stochastic Bifurcations and Excitement in the ZS-model of a
Thermochemical Reaction, [Mathematics] Manuscript ID: mathematics-1617458, 11-3-2022.
- 35- Physics of fluid, thank you for your review of "High-order asymptotic solutions for gas transport in heterogeneous media with multiple spatial scales," by Hong Zuo, Zhiqiang Yang, Shouchun Deng, and Haibo Li., 31-10-2022.
- 36- Title: Study on Collision Dynamics Model and Multi-Body Contact forces of Flexible Joint Considering Ball Cage Clearance, Journal: Machines, 4-11-2022.
- 37- Journal Title: International Journal of Modern Physics B
Submission No.: JPB20078063R2
Submission Title: Falkner-Skan slip flow of non-Newtonian fluid over a moving and nonlinearly radiated wedge with variable heat source/sink and viscous dissipation, 25-11-2022.
- 38- Manuscript Number: EST-D-23-00116,
New insight into the effect of oxygen vacancies on electrochemical performance of nickel-tin oxide/reduced graphene oxide composite for asymmetric supercapacitor, 31-1-2023.
- 39- Ref: AMMOD-D-23-00628
Title: Wave motion in second strain gradient periodic nano-waveguides, Applied Mathematical Modelling, 17-3-2023
- 40- Manuscript Number: TB-D-23-00386R1
Influence of Thermal Relaxation Time on Thermomechanical Interactions in Biological Tissue during Hyperthermia Treatment, Journal of Thermal Biology, 29-8-2023.

- 41- Reviewing the manuscript ZNA.2023.0251 entitled "Slow axisymmetric translation motion of a spherical particle within a concentric spherical cavity filled with micropolar fluid with slip surfaces" for the journal Zeitschrift für Naturforschung A. 22-9-2023.
- 42- Manuscript Number: TSEP-D-23-02502
Incorporating Temperature-Dependent Properties into the Modeling of Photo-Thermo-Mechanical Interactions in Cancer Tissues. Thermal Science and Engineering Progress, 10-4-2023.
- 43- Effects of a spherical slip cavity filled with micropolar fluid on a spherical micropolar droplet, Fluid Dynamic Research, 11-6-2023.
- 44- Manuscript Number: JKSUCIS-D-23-02401
A Novel Processor for Dynamic Evolution of Constrained SAT Problems-The Dynamic Evolution Variant of the Discrete Hopfield Neural Network Satisfiability Model, Journal of King Saud University - Computer and Information Sciences, 22-11-2023.
- 45- Manuscript Number: CJPHY-D-23-01970 ,MHD Flow of immiscible couple stress-Newtonian fluids through an inclined porous channel , 20-12-2023.
- 46- Manuscript Number: CJPHY-D-23-01970
MHD Flow of immiscible couple stress-Newtonian fluids through an inclined porous channel, Chinese Journal of Physics,21-12-2023
- 47- Journal Title: International Journal of Modern Physics B
Submission No.: JPB20078063R1, Submission Title: Falkner-Skan slip flow of non-Newtonian fluid over a moving and nonlinearly radiated wedge with variable heat source/sink and viscous dissipation, Corresponding Author: Dr Siva Kumar N, 4-11-2022.
- 48- HYBADV-D-24-00233
Title: Investigation on Unsteady Fluid Flow around an Oscillating Sphere-A Numerical and Analytical approach
Hybrid Advances, 24-6-2024
- 49- Ms. Ref. No.: CNSNS-D-24-01082R1, Title: Magneto-photo-thermoelastic influences on a semiconductor hollow cylinder via a series-one-relaxation model
Communications in Nonlinear Science and Numerical Simulation, 4-7-2024.
- 50- Manuscript Number: PADIFF-D-24-00596R1, Steady Flow of Couple Stress Fluid through a Rectangular Channel under Transverse Magnetic Field with Suction, Partial Differential Equations in Applied Mathematics,10-8-2024.
- 51- ST-D-24-05000R1, Framing the Effect of Fitted Curved Fins' Curvature on the Flow Patterns and Entropy Analysis of Buoyancy-Driven Magnetized Hybrid Nanofluidic Transport within an Annular Enclosure, Journal of Energy Storage , 31-8-2024
- 52- Manuscript Number: EST-D-24-04751R1, Numerical analysis of Nano-encapsulated PCM Convection in Partially Porous Annular Cavities: MHD and Soret-Dufour Effects. Journal of Energy Storage ,2-9-2024.
- 53- Manuscript zamm.202400262.R1 entitled "Wall effects of an eccentric fluid sphere : Happel's and Kuwabara's models" for Zeitschrift für Angewandte Mathematik und Mechanik. 3-9-2024.
- 54- FOE-2024-0074.R1 entitled "The Influence of the Homotopy Stability Perturbation on Physical Variations of Non-Local Opto-Electronic Semiconductor Materials" for the Frontiers of Optoelectronics, 11-9-2024.
- 55- JPF-24-0025.R1 entitled "A computational study on the sensitivity of slip constraints in the blade coating process of an electrically conducting Oldroyd 4-constant fluid" for Journal of Plastic Film and Sheeting. Journal of Energy Storage, 24-9-2024
- 56- EST-D-24-05852R1
Heat Transfer Enhancement of Microchannel Using Nano-Encapsulated Phase Change Material for Fuel Cell Thermal Management Systems, 24-9-2024.

- 57- Manuscript Number: EJMFLU-D-24-00465, Effect of vertical rotation and salt on the stability of a couple stress fluid layer, European Journal of Mechanics / B Fluids , 11-10-2024.
- 58- Manuscript Number: CJPHY-D-24-01640R2, Migration of a slip-spin solid sphere particle in a micropolar fluid-filled circular cylindrical tube, Chinese Journal of Physics, 19-10-2024.
- 59- Reviewing manuscript # JCDE-2024-604 entitled "Analyzing Thermal Performance and Entropy Generation in Time-Dependent Buoyancy Flow of Hydrogen-Based Over Rotating Sphere with Ternary Nanoparticle Shape Factor" for the Journal of Computational Design and Engineering. 19-10-2024
- 60- Journal of the Brazilian Society of Mechanical Sciences and Engineering. Manuscript Number: BMSE-D-24-02065 Title: Axisymmetric migration of an aerosol sphere in bounded micropolar fluid: Thermophoresis effect, 4-11-2024.
- 61- JMSE (ISSN 2077-1312), Manuscript ID:jmse-3335064, Title:Design and real-size flume experiment of a double-row hydraulic sluicing collector equipped with an annular jet pump, 12-11-2024
- 62- Reviewing the above manuscript, entitled "Photo-thermoelastic interaction of a semiconductor infinite medium due to an inclined linearly distributed load" for Journal of Thermal Stresses, 14-11-2024.
- 63- Ref.: Ms. No. MPLB-D-24-00842
Thermal performance of MgO-SWCNT/water hybrid nanoliquids in a zigzag walled cavity with different shaped obstacles
Modern Physics Letters B, 15-11-2024.
- 64- Case Studies in Thermal Engineering, A Hall Current Impact and Variable Thermal Conductivity of Hydrodynamic Nanostructure Semiconductors Subjected to Decaying Heat Source, 18-12-2024.
- 65- Manuscript 'A Hall Current Impact and Variable Thermal Conductivity of Hydrodynamic Nanostructure Semiconductors Subjected to Decaying Heat Source' by Case Studies in Thermal Engineering, 3-2-2025.
- 66- Review for the Chinese Journal of Physics manuscript on the stability of a couple stress fluid layer, 10-2-2025.
- 67- "Transient Waves in Thermoviscoelastic Axisymmetric Cylindrical Media via the Moore-Gibson-Thompson Model", Manuscript reference: PHYSSCR-137878.R1, to review this Paper for Physica Scripta. 23-2-2025.
- 68- Well-posed Coupled Fractional Hyperbolic Problem of Thermoelasticity" has been submitted to Journal of Thermal Stresses. 8-4-2025.
- 69- International Communications in Heat and Mass Transfer, review a paper entitled "Squeeze Film Lubrication Between two different spheres: MHD- Couple Stress Fluid Model, 16-4-2025.
- 70- Review a manuscript for International Communications in Heat and Mass Transfer a paper entitled "Impact of Low and High Frequency on Reflection Phenomena in Plane Wave Propagation Governed by the Moore-Gibson-Thompson Model", 4-5-2025.
- 71- Heliyon , manuscript 'Radiation effect on unsteady mixed convection hybrid nanofluid flow in a lid-driven cavity with rotating cylinder: A numerical and statistical analysis', 5-5-2025.
- 72- Manuscript, entitled "Nonlocal magnetothermoelastic sphere or space with a spherical cavity with an exponential or sinc-fractional operator" has been submitted to Journal of Thermal Stresses, 7-5-2025.
- 73- Review the manuscript entitled "Information Entropies of Multi-level Rabi Model Based on Trapped Ions" for Open Physics, 9-5-2025.
- 74- Fractional MGT Thermophotovoltaic with Spacetime Nonlocality Model for a Rotating Semiconductor Solid Sphere, Ain Shams Engineering Journal, 9-5-2024.

- 75- Review the manuscript 'Dynamics Of Couple-Stress Fluid Around Solid Cylinder In Porous Medium: Effect Of Magnetic Field' for Zeitschrift fur Angewandte Mathematik und Mechanik, 13-5-2025.
- 76- Chinese Journal of Physics, Effect of vertical rotation and salt on the stability of a couple stress fluid layer, 14-5-2025.
- 77- Manuscript ID CJCE-24-1100.R1 entitled "2D -MHD Brinkman Flow around Circular Cylinders inside a Microchannel exhibiting Wall Roughness" , The Canadian Journal of Chemical Engineering. 20-5-2025
- 78- Manuscript ID JPF-25-0026 entitled "Numerical simulation of the Cross fluid model in the blade coating mechanism with Magnetohydrodynamic and non-linear slip effects" has been submitted to Journal of Plastic Film and Sheeting. 22-5-2025.
- 79- Manuscript Number: EJMFLU-D-25-00313, Assessment of heat and mass transfer in a porous n-shaped heat exchanger using hybrid nanofluid under cross-diffusion and magnetic effects, 29-5-2025.
- 80- Review a manuscript, entitled "Thermal vibration analysis of viscoelastic functionally graded porous plate" has been submitted to Journal of Thermal Stresses, 2-6-2025.
- 81- Review a manuscript for Journal of Radiation Research and Applied Sciences a paper entitled "ISPH Simulation of Thermal Radiation, Soret, and Dufour Effects on Heat and Mass Transfer in a Porous Channel", 5-6-2025.
- 82- Review of "2D -MHD Brinkman Flow around Circular Cylinders inside a Microchannel exhibiting Wall Roughness" for The Canadian Journal of Chemical, 13-6-2025.
- 83- Manuscript 'A study of the dynamic response of two concentric spheres in the context of thermoelastic diffusion with internal heat source' by Case Studies in Thermal Engineering, 14-6-2025.
- 84- Review manuscript RINENG-D-25-09036 for Results in Engineering a paper entitled "Numerical Simulation of Exponentially Stratified Magneto-Nanofluid Flow across Stretchable Surface in Darcy Porous Material", 15-6-2025.
- 85- Damage Detection for Offshore Wind Turbines Subjected to Non-Stationary Ambient Excitations: A Noise-Robust Algorithm Using Partial Measurements, Journal: Energies, 18-6-2025.

Publications*

- 1- MA Ezzat, S. El-Sapa, **State space approach to magnetohydrodynamic flow of perfectly conducting micropolar fluid with stretch**, *International Journal for Numerical Methods in Fluids*, 70 (1), 114-134, 2012.
- 2- MS Faltas, El Saad, S. El-Sapa , **Slip–Brinkman flow through corrugated microannulus with stationary random roughness**, *Transport in Porous Media*, 116, 533-566, 2017.
- 3- HH Sherief, MS Faltas, S. El-Sapa, **A general formula for the drag on a solid of revolution body at low Reynolds numbers in a microstretch fluid**, *Meccanica*, 52 (Issue 11–12), pp 2655–2664, 2017.
- 4- HH Sherief, MS Faltas, S. El-Sapa, **Pipe Flow of Magneto-Micropolar Fluids with Slip**, *Canadian Journal of Physics*, 95 (10), 885-893, 2017.
- 5- S. El-Sapa, El Saad, MS Faltas, **Axisymmetric motion of two spherical particles in a Brinkman medium with slip surfaces**, *European Journal of Mechanics-B/Fluids*, 67, 306-313, 2018.

6- HH Sherief, MS Faltas, S. El-Sapa, Slow motion of a slightly deformed spherical droplet in a microstretch fluid , <i>Microsystem Technologies</i> , 24 (8), 3245–3259, 2018.
7- MS Faltas, S. El-Sapa, Rectilinear oscillations of two spherical particles embedded in an unbounded viscous fluid , <i>Microsystem Technologies</i> , 25 (1), pp 39-49, 2019.
8- S. El-Sapa, Settling slip velocity of a spherical particle in an unbounded micropolar fluid , <i>The European Physical Journal E</i> , 42 (32), 1-8, 2019.
9- HH Sherief, MS Faltas, S. El-Sapa , Force on a spherical particle oscillating in a viscous fluid perpendicular to an impermeable planar wall , <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 41, 2019.
10- HH Sherief, MS Faltas, S. El-Sapa, Axisymmetric creeping motion caused by a spherical particle in a micropolar fluid within a nonconcentric spherical cavity , <i>European Journal of Mechanics - B/Fluids</i> , 77, 211-220, 2019.
11- HH Sherief, MS Faltas, S. El-Sapa, Interaction between two rigid spheres moving in a micropolar fluid with slip surfaces , <i>Journal of Molecular Liquids</i> , 290 (111165), 2019.
12- MS Faltas, S. El-Sapa , Hydrodynamic potentials for the creeping motion of a microstretch fluid , <i>International Journal of Applied and Computational Mathematics</i> , 5 (131), 1-14, 2019.
13- S. El-Sapa, Effect of permeability of Brinkman flow on thermophoresis of a particle in a spherical cavity , <i>European Journal of Mechanics - B/Fluids</i> , 79 (January–February 2020), 315-323
14- S. El-Sapa, Effect of magnetic field on a microstretch fluid drop embedded in an unbounded another microstretch fluid , <i>European Journal of Mechanics - B/Fluids</i> , 85 (January–February 2021), 169-180, 2021.
15- MS Faltas, S. El-Sapa, Brinkman Cross - Couette Flow between Two Plates with Surface Roughness , <i>Journal of Porous Media</i> 24 (4), 1-19, 2021.
16- S. El-Sapa, NS Alsudais, Effect of magnetic field on the motion of two rigid spheres embedded in porous media with slip surfaces , <i>The European Physical Journal E</i> , 44 (5), 68, 2021.
17- AM Aly, S. El-Sapa, Double rotations of cylinders on thermosolutal convection of a wavy porous medium inside a cavity mobilized by a nanofluid and impacted by a magnetic field , <i>International Journal of Numerical Methods for Heat & Fluid Flow</i> , 1-24, 2021.
18- NS Alsudais, El-Sapa Shreen, EA Ashmawy, Stokes flow of an incompressible couple stress fluid confined between two eccentric spheres , <i>European Journal of Mechanics-B/Fluids</i> , 91, 244-252, 2021.
19- AM Aly, S. El-Sapa, Effects of Soret and Dufour numbers on MHD thermosolutal convection of a nanofluid in a finned cavity including rotating circular cylinder and cross shapes , <i>International Communications in Heat and Mass Transfer</i> , 130, 105819, 2022.
20- Z Raizah, S. El-Sapa, AM Aly, ISPH simulations of thermosolutal convection in an annulus amongst an inner prismatic shape and outer cavity including three circular cylinders , <i>Case Studies in Thermal Engineering</i> , 30, 101736, 2022.
21- S. El-Sapa, MS Faltas, Mobilities of two spherical particles immersed in a magneto-micropolar fluid , <i>Physics of Fluids</i> , 34 (1), 013104, 2022.

22- AA Almoneef, S. El-Sapa, K Lotfy, A El-Bary, AM Saeed, Laser Short-Pulse Effect on Thermodiffusion Waves of Fractional Heat Order for Excited Nonlocal Semiconductor, <i>Advances in Condensed Matter Physics</i> , 2022 (1), 1523059.
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