Sara I Abdelsalam

List of Publications by Citations

37 papers	1,443 citations	26 h-index	37 g-index
38 ext. papers	2,028 ext. citations	2.9 avg, IF	6.31 L-index

#	Paper	IF	Citations
37	Swimming of Motile Gyrotactic Microorganisms and Nanoparticles in Blood Flow Through Anisotropically Tapered Arteries. *Frontiers in Physics*, **2020**, 8,	3.9	95
36	The study of non-Newtonian nanofluid with hall and ion slip effects on peristaltically induced motion in a non-uniform channel.. *RSC Advances*, **2018**, 8, 7904-7915	3.7	90
35	Simultaneous effects of magnetic field and space porosity on compressible Maxwell fluid transport induced by a surface acoustic wave in a microchannel. *Chinese Physics B*, **2013**, 22, 124702	1.2	74
34	On the onset of entropy generation for a nanofluid with thermal radiation and gyrotactic microorganisms through 3D flows. *Physica Scripta*, **2020**, 95, 045206	2.6	73
33	The impact of impinging TiO2 nanoparticles in Prandtl nanofluid along with endoscopic and variable magnetic field effects on peristaltic blood flow. *Multidiscipline Modeling in Materials and Structures*, **2018**, 14, 530-548	2.2	60
32	Adverse effects of a hybrid nanofluid in a wavy non-uniform annulus with convective boundary conditions.. *RSC Advances*, **2020**, 10, 15035-15043	3.7	55
31	Combined effects of magnetic field and rheological properties on the peristaltic flow of a compressible fluid in a microfluidic channel. *European Journal of Mechanics, B/Fluids*, **2017**, 65, 398-411	2.4	53
30	Anomalous reactivity of thermo-bioconvective nanofluid towards oxytactic microorganisms. *Applied Mathematics and Mechanics (English Edition)*, **2020**, 41, 711-724	3.2	52
29	Hall and Porous Boundaries Effects on Peristaltic Transport Through Porous Medium of a Maxwell Model. *Transport in Porous Media*, **2012**, 94, 643-658	3.1	52
28	Application of non-Fourier double diffusions theories to the boundary-layer flow of a yield stress exhibiting fluid model. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 537, 122753	3.3	50
27	Numerical approach of variable thermophysical features of dissipated viscous nanofluid comprising gyrotactic micro-organisms **2020**, 94, 1		50
26	Particulate suspension effect on peristaltically induced unsteady pulsatile flow in a narrow artery: Blood flow model. *Mathematical Biosciences*, **2017**, 283, 91-105	3.9	49
25	Metachronal propulsion of a magnetised particle-fluid suspension in a ciliated channel with heat and mass transfer. *Physica Scripta*, **2019**, 94, 115301	2.6	47
24	Alterations in blood stream by electroosmotic forces of hybrid nanofluid through diseased artery: Aneurysmal/stenosed segment. *Chinese Journal of Physics*, **2020**, 67, 314-329	3.5	44
23	Intra-uterine particle–fluid motion through a compliant asymmetric tapered channel with heat transfer. *Journal of Thermal Analysis and Calorimetry*, **2020**, 144, 2259	4.1	43
22	Peristaltic thrusting of a thermal-viscosity nanofluid through a resilient vertical pipe. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2020**, 75, 727-738	1.4	39
21	Joint Effect of Magnetic Field and Heat Transfer on Particulate Fluid Suspension in a Catheterized Wavy Tube. *BioNanoScience*, **2019**, 9, 723-739	3.4	38

20	Bio-inspired peristaltic propulsion of hybrid nanofluid flow with Tantalum (Ta) and Gold (Au) nanoparticles under magnetic effects. *Waves in Random and Complex Media*, **2021**, 1-26	1.9	38
19	New Insight into AuNP Applications in Tumour Treatment and Cosmetics through Wavy Annuli at the Nanoscale. *Scientific Reports*, **2019**, 9, 260	4.9	37
18	Interaction between compressibility and particulate suspension on peristaltically driven flow in planar channel. *Applied Mathematics and Mechanics (English Edition)*, **2017**, 38, 137-154	3.2	34
17	Thermal transport of radiative Williamson fluid over stretchable curved surface. *Thermal Science and Engineering Progress*, **2021**, 23, 100887	3.6	34
16	DC/AC magnetohydrodynamic-micropump of a generalized Burger's fluid in an annulus. *Physica Scripta*, **2019**, 94, 115209	2.6	33
15	Couple stress fluid flow in a rotating channel with peristalsis. *Journal of Hydrodynamics*, **2018**, 30, 307-315	3.3	31
14	Electro-magnetically modulated self-propulsion of swimming sperms via cervical canal. *Biomechanics and Modeling in Mechanobiology*, **2021**, 20, 861-878	3.8	31
13	THE INTEGRATED THERMAL EFFECT IN CONJUNCTION WITH SLIP CONDITIONS ON PERISTALTICALLY INDUCED PARTICLE-FLUID TRANSPORT IN A CATHETERIZED PIPE. *Journal of Porous Media*, **2020**, 23, 695-713	2.9	30
12	Concurrent Development of Thermal Energy with Magnetic Field on a Particle-Fluid Suspension Through a Porous Conduit. *BioNanoScience*, **2019**, 9, 186-202	3.4	28
11	A Study of Nonlinear Variable Viscosity in Finite-Length Tube with Peristalsis. *Applied Bionics and Biomechanics*, **2014**, 11, 197-206	1.6	26
10	Thermodynamic entropy of a magnetized Ree-Eyring particle-fluid motion with irreversibility process: A mathematical paradigm. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2021**, 101, e202000186	1	26
9	Electromagnetic flow for two-layer immiscible fluids **2019**, 22, 237-248		23
8	Leveraging Elasticity to Uncover the Role of Rabinowitsch Suspension through a Wavelike Conduit: Consolidated Blood Suspension Application. *Mathematics*, **2021**, 9, 2008	2.3	20
7	Africa response to the COVID-19 pandemic: A review of the nature of the virus, impacts and implications for preparedness. *AAS Open Research*,3, 19	1.8	18
6	Biomedical simulations of nanoparticles drug delivery to blood hemodynamics in diseased organs: Synovitis problem. *International Communications in Heat and Mass Transfer*, **2021**, 130, 105756	5.8	16
5	Computational Framework of Magnetized MgO-Ni/Water-Based Stagnation Nanoflow Past an Elastic Stretching Surface: Application in Solar Energy Coatings.. *Nanomaterials*, **2022**, 12,	5.4	13
4	Three-dimensional nanofluid stirring with non-uniform heat source/sink through an elongated sheet. *Applied Mathematics and Computation*, **2022**, 421, 126927	2.7	6
3	Dynamism of a hybrid Casson nanofluid with laser radiation and chemical reaction through sinusoidal channels. *Waves in Random and Complex Media*,1-22	1.9	5

2	On the entropy optimization of hemodynamic peristaltic pumping of a nanofluid with geometry effects. *Waves in Random and Complex Media*,1-21	1.9	4
1	Erratum to Simultaneous effects of magnetic field and space porosity on compressible Maxwell fluid transport induced by a surface acoustic wave in a microchannel *Chinese Physics B*, **2021**, 30, 099901	1.2	