S O Salawu

List of Publications by Year
in descending order

61 papers	**889** citations	471509 **17** h-index	642732 **23** g-index
61 all docs	**61** docs citations	**61** times ranked	**260** citing authors

#	Article	IF	Citations
1	Significance of cross diffusion and uneven heat source/sink on the variable reactive 2D Casson flowing fluid through an infinite plate with heat and Ohmic dissipation. International Journal of Modelling and Simulation, 2023, 43, 347-361.	3.3	13
2	Analysis of hydromagnetic micropolar nanofluid flow past a nonlinear stretchable sheet and entropy generation with Navier slips. International Journal of Modelling and Simulation, 2022, 42, 359-369.	3.3	28
3	Investigation of porosity significance on an Oldroyd–B fluid flow transport between parallel plates: Closed form solution. Heat Transfer, 2022, 51, 658-676.	3.0	7
4	On the hydromagnetic reaction of Oldroyd 8-constant Arrhenius exothermic fluid and explosion slice-chain in a plane Couette. Chemical Physics Impact, 2022, 4, 100067.	3.5	4
5	Influence of magnetization, variable viscosity and thermal conductivity on Von Karman swirling flow of H2O-FE3O4 and H2O-Mn-ZNFe2O4 ferromagnetic nanofluids from a spinning DISK: Smart spin coating simulation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 279, 115659.	3.5	27
6	Computation of reactive mixed convection radiative viscoelastic nanofluid thermo-solutal transport from a stretching sheet with Joule heating. International Journal of Modelling and Simulation, 2022, 42, 1005-1029.	3.3	27
7	Computation of heat transfer in magnetised Blasius flow of nano-fluids with suspended carbon nanotubes through a moving flat plate. International Journal of Ambient Energy, 2022, 43, 7657-7665.	2.5	10
8	Thermal cooling performance of convective non-Newtonian nanofluid flowing with variant power-index across moving extending surface. Scientific Reports, 2022, 12, .	3.3	12
9	Reaction-diffusion of double exothermic couple stress fluid and thermal criticality with Reynold's viscosity and optical radiation. Chemical Physics, 2022, 561, 111601.	1.9	9
10	Thermal Prandtl-Eyring hybridized MoS_2 SiO <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si47.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml... xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si48.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">SiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mo>/</mml:mo...	4.9	36
11	Thermodynamic analysis of a tangent hyperbolic hydromagnetic heat generating fluid in quadratic Boussinesq approximation. Journal of Computational Mathematics and Data Science, 2022, 4, 100058.	2.3	8
12	Thermosolutal convective non–Newtonian radiative Casson fluid transport over a vertical plate propagated by Arrhenius kinetics with heat source/sink. Heat Transfer, 2021, 50, 2829-2848.	3.0	19
13	Unsteady radiative magnetohydromagnetic flow and entropy generation of maxwell nanofluid in a porous medium with arrhenius chemical kinetic. Cogent Engineering, 2021, 8, .	2.2	12
14	ON FREE CONVECTION FLOW OF A MOVING VERTICAL PERMEABLE PLATE WITH QUADRATIC BOUSSINESQ APPROXIMATION AND VARIABLE THERMAL CONDUCTIVITY. Heat Transfer Research, 2021, 52, 55-66.	1.6	9
15	MHD heat and mass transport of Maxwell Arrhenius kinetic nanofluid flow over stretching surface with nonlinear variable properties. Results in Chemistry, 2021, 3, 100125.	2.0	22
16	Numerical simulation for the steady nanofluid boundary layer flow over a moving plate with suction and heat generation. SN Applied Sciences, 2021, 3, 1.	2.9	29
17	Flow of three–dimensional radiative Williamson fluid over an inclined stretching sheet with Hall current and nth–order chemical reaction. Heat Transfer, 2021, 50, 5400-5417.	3.0	22
18	Computation of ferromagnetic/nonmagnetic nanofluid flow over a stretching cylinder with induction and curvature effects. Heat Transfer, 2021, 50, 5240-5266.	3.0	20

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19	Current density and thermodynamic analysis of energy optimization for double exothermic reaction of magneto-Oldroyd 8-constant material. Journal of King Saud University - Science, 2021, 33, 101374.	3.5	17
20	Radiative thermal criticality and entropy generation of hydromagnetic reactive Powell-Eyring fluid in saturated porous media with variable conductivity. International Communications in Heat and Mass Transfer, 2021, 124, 104613.	5.6	2
21	A numerical study of MHD heat and mass transfer of a reactive Casson–Williamson nanofluid past a vertical moving cylinder. Partial Differential Equations in Applied Mathematics, 2021, 4, 100148.	2.4	19
22	Entropy analysis of nonlinear radiative Casson nanofluid transport over an electromagnetic actuator with temperature-dependent properties. Partial Differential Equations in Applied Mathematics, 2021, 4, 100152.	2.4	7
23	Irreversibility Analysis for Eyring–Powell Nanoliquid Flow Past Magnetized Riga Device with Nonlinear Thermal Radiation. Fluids, 2021, 6, 416.	1.7	12
24	Logarithmic-Sobolev and multilinear Hölder's inequalities via heat flow monotonicity formulas. Applied Mathematics and Computation, 2020, 364, 124640.	2.2	0
25	Entropy generation of a radiative hydromagnetic Powell-Eyring chemical reaction nanofluid with variable conductivity and electric field loading. Results in Engineering, 2020, 5, 100072.	5.1	41
26	Branch-chain criticality and thermal explosion of Oldroyd 6-constant fluid for a generalized Couette reactive flow. South African Journal of Chemical Engineering, 2020, 34, 90-96.	2.4	10
27	The variable viscosity effects on hydromagnetic couple stress heat generating porous fluid flow with convective wall cooling. Scientific African, 2020, 9, e00495.	1.5	9
28	On Criticality for a Branched-chain Thermal Reactive-Diffusion in a Cylinder. Combustion Science and Technology, 2020, , 1-15.	2.3	8
29	On the diffusion reaction of fourth-grade hydromagnetic fluid flow and thermal criticality in a plane Couette medium. Results in Engineering, 2020, 8, 100169.	5.1	10
30	On Criticality for a Generalized Couette Flow of a Branch-Chain Thermal Reactive Third-Grade Fluid with Reynold's Viscosity Model. Scientific World Journal, The, 2020, 2020, 1-10.	2.1	8
31	Double exothermic reaction of viscous dissipative Oldroyd 8-constant fluid and thermal ignition in a channel. Chemical Physics Letters, 2020, 760, 138011.	2.6	34
32	Dissipative Power-law fluid flow using spectral quasi linearization method over an exponentially stretchable surface with Hall current and power-law slip velocity. International Communications in Heat and Mass Transfer, 2020, 119, 104933.	5.6	33
33	Bound state solutions of the Schrödinger equation and its application to some diatomic molecules. Journal of Molecular Modeling, 2020, 26, 145.	1.8	5
34	On Ignition Slice-Chain And Heat Distribution Of Magnetohydromagnetic Reactive Oldroyd 8-Constant Flow In A Plane Couette. , 2020, , .		0
35	Thermodynamic second law analysis of magneto-micropolar fluid flow past nonlinear porous media with non-uniform heat source. Propulsion and Power Research, 2020, 9, 281-288.	4.3	26
36	Mathematical analysis of affinity hemodialysis on T-Cell depletion. Scientific African, 2020, 8, e00427.	1.5	3

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37	Melting effect on non-Newtonian fluid flow in gyrotactic microorganism saturated non-darcy porous media with variable fluid properties. Applied Nanoscience (Switzerland), 2020, 10, 3911-3924.	3.1	34
38	Thermal runaway and thermodynamic second law of a reactive couple stress hydromagnetic fluid with variable properties and Navier slips. Scientific African, 2020, 7, e00261.	1.5	17
39	Current density and criticality branch-chain for a reactive Poiseuille second-grade hydromagnetic flow with variable electrical conductivity. International Journal of Thermofluids, 2020, 3-4, 100030.	7.8	11
40	Gradient estimates for a weighted nonlinear parabolic equation and applications. Open Mathematics, 2020, 18, 1150-1163.	1.0	2
41	On the reproduction number and the optimal control of infectious diseases in a heterogenous population. Advances in Difference Equations, 2020, 2020, .	3.5	2
42	Transient Heat and Mass Transfer of Hydromagnetic Effects on the Flow Past a Porous Medium with Movable Vertical Permeablesheet. International Journal of Applied Mechanics and Engineering, 2020, 25, 175-190.	0.7	1
43	Thermal explosion and irreversibility of hydromagnetic reactive couple stress fluid with viscous dissipation and Navier slips. Theoretical and Applied Mechanics Letters, 2019, 9, 246-253.	2.8	23
44	Thermal stability and entropy generation of unsteady reactive hydromagnetic Powell-Eyring fluid with variable electrical and thermal conductivities. AEJ - Alexandria Engineering Journal, 2019, 58, 519-529.	6.4	32
45	Analysis of buoyancy driven flow of a reactive heat generating third grade fluid in a parallel channel having convective boundary conditions. SN Applied Sciences, 2019, 1, 1.	2.9	10
46	Unsteady oscillatory MHD boundary layer flow past a moving plate with mass transfer and binary chemical reaction. SN Applied Sciences, 2019, 1, 1.	2.9	2
47	Radiative thermal criticality and entropy generation of hydromagnetic reactive Powell–Eyring fluid in saturated porous media with variable conductivity. Energy Reports, 2019, 5, 480-488.	5.1	35
48	Eigensolutions, scattering phase shift and thermodynamic properties of Hulthá º»n-Yukawa potential. Results in Physics, 2019, 14, 102409.	4.1	5
49	Analysis of unsteady viscous dissipative poiseuille fluid flow of two-step exothermic chemical reaction through a porous channel with convective cooling. Ain Shams Engineering Journal, 2019, 10, 565-572.	6.1	21
50	On the Entropy Formulas and Solitons for the Ricci-Harmonic Flow. Bulletin of the Iranian Mathematical Society, 2019, 45, 1177-1192.	1.0	4
51	Dynamical analysis of hydromagnetic Brownian and thermophoresis effects of squeezing Eyring–Powell nanofluid flow with variable thermal conductivity and chemical reaction. Multidiscipline Modeling in Materials and Structures, 2019, 15, 1100-1120.	1.3	34
52	Gradient estimates for a nonlinear elliptic equation on smooth metric measure spaces and applications. Heliyon, 2019, 5, e02784.	3.2	5
53	EFFECT OF NONLINEAR RADIATIVE HEAT AND MASS TRANSFER ON MHD FLOW OVER A STRETCHING SURFACE WITH VARIABLE CONDUCTIVITY AND VISCOSITY. Journal of the Serbian Society for Computational Mechanics, 2019, 13, 86-103.	0.4	6
54	Analysis of Pressure-Driven Heat and Mass Transfer of Hydromagnetic Flow Past Darcy-Forchheimer Porous Media Using Lie Group. Journal of Engineering and Applied Sciences, 2019, 14, 4405-4413.	0.2	1

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55	The Effects of Thermal Radiation on a Reactive Hydromagnetic Internal Heat Generating Fluid Flow Through Parallel Porous Plates. Springer Proceedings in Mathematics and Statistics, 2018, , 183-193.	0.2	11
56	LIE GROUP ANALYSIS OF SORET AND DUFOUR EFFECTS ON RADIATIVE INCLINED MAGNETIC PRESSURE-DRIVEN FLOW PAST A DARCY-FORCHHEIMER MEDIUM. Journal of the Serbian Society for Computational Mechanics, 2018, 12, 108-125.	0.4	15
57	INHERENT IRREVERSIBILITY OF HYDROMAGNETIC THIRD-GRADE REACTIVE POISEUILLE FLOW OF A VARIABLE VISCOSITY IN POROUS MEDIA WITH CONVECTIVE COOLING. Journal of the Serbian Society for Computational Mechanics, 2017, 11, 46-58.	0.4	22
58	Radiative heat transfer of variable viscosity and thermal conductivity effects on inclined magnetic field with dissipation in a non-Darcy medium. Journal of the Nigerian Mathematical Society, 2016, 35, 93-106.	0.1	23
59	Arrhenius Activation Energy Effect on a Stagnation Point Slippery MHD Casson Nanofluid Flow with Entropy Generation and Melting Heat Transfer. Defect and Diffusion Forum, 0, 408, 1-18.	0.4	12
60	Prevalence of secondary flow due to hall currents on radiative squeezing flow of a CuO-water nanofluid in a rotating channel: numerical prediction. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210769.	2.5	2
61	Analysis of Entropy Generation in Micropolar Magneto-Nanoliquid Material with Activation Energy and Nonlinear Radiation. Materials Science Forum, 0, 1065, 203-213.	0.3	1