

S O Salawu

List of Publications by Year in descending order

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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	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
2	Thermal Prandtl-Eyring hybridized MoS_2 nanofluid flow over a stretching sheet with variable thermal conductivity and chemical reaction. Multidiscipline Modeling in Materials and Structures, 2019, 15, 1100-1120.	4.9	36
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Influence of magnetization, variable viscosity and thermal conductivity on Von Karman swirling flow of H ₂ O-Fe ₃ O ₄ and H ₂ O-Mn-ZnFe ₂ O ₄ 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
12	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
13	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
14	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
15	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
16	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
17	Flow of three-dimensional radiative Williamson fluid over an inclined stretching sheet with Hall current and n -th order chemical reaction. Heat Transfer, 2021, 50, 5400-5417.	3.0	22
18	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

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19	Analysis of unsteady viscous dissipative poiseuille fluid flow of two-step exothermic chemical reaction through a porous channel with convective cooling. <i>Ain Shams Engineering Journal</i> , 2019, 10, 565-572.	6.1	21
20	Computation of ferromagnetic/nonmagnetic nanofluid flow over a stretching cylinder with induction and curvature effects. <i>Heat Transfer</i> , 2021, 50, 5240-5266.	3.0	20
21	Thermosolutal convective non-Newtonian radiative Casson fluid transport over a vertical plate propagated by Arrhenius kinetics with heat source/sink. <i>Heat Transfer</i> , 2021, 50, 2829-2848.	3.0	19
22	A numerical study of MHD heat and mass transfer of a reactive Casson-Williamson nanofluid past a vertical moving cylinder. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 4, 100148.	2.4	19
23	Thermal runaway and thermodynamic second law of a reactive couple stress hydromagnetic fluid with variable properties and Navier slips. <i>Scientific African</i> , 2020, 7, e00261.	1.5	17
24	Current density and thermodynamic analysis of energy optimization for double exothermic reaction of magneto-Oldroyd 8-constant material. <i>Journal of King Saud University - Science</i> , 2021, 33, 101374.	3.5	17
25	LIE GROUP ANALYSIS OF SORET AND DUFOUR EFFECTS ON RADIATIVE INCLINED MAGNETIC PRESSURE-DRIVEN FLOW PAST A DARCY-FORCHHEIMER MEDIUM. <i>Journal of the Serbian Society for Computational Mechanics</i> , 2018, 12, 108-125.	0.4	15
26	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. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 347-361.	3.3	13
27	Unsteady radiative magnetohydrodynamic flow and entropy generation of maxwell nanofluid in a porous medium with arrhenius chemical kinetic. <i>Cogent Engineering</i> , 2021, 8, .	2.2	12
28	Arrhenius Activation Energy Effect on a Stagnation Point Slippery MHD Casson Nanofluid Flow with Entropy Generation and Melting Heat Transfer. <i>Defect and Diffusion Forum</i> , 0, 408, 1-18.	0.4	12
29	Irreversibility Analysis for Eyring-Powell Nanoliquid Flow Past Magnetized Riga Device with Nonlinear Thermal Radiation. <i>Fluids</i> , 2021, 6, 416.	1.7	12
30	Thermal cooling performance of convective non-Newtonian nanofluid flowing with variant power-index across moving extending surface. <i>Scientific Reports</i> , 2022, 12, .	3.3	12
31	The Effects of Thermal Radiation on a Reactive Hydromagnetic Internal Heat Generating Fluid Flow Through Parallel Porous Plates. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 183-193.	0.2	11
32	Current density and criticality branch-chain for a reactive Poiseuille second-grade hydromagnetic flow with variable electrical conductivity. <i>International Journal of Thermofluids</i> , 2020, 3-4, 100030.	7.8	11
33	Analysis of buoyancy driven flow of a reactive heat generating third grade fluid in a parallel channel having convective boundary conditions. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	10
34	Branch-chain criticality and thermal explosion of Oldroyd 6-constant fluid for a generalized Couette reactive flow. <i>South African Journal of Chemical Engineering</i> , 2020, 34, 90-96.	2.4	10
35	On the diffusion reaction of fourth-grade hydromagnetic fluid flow and thermal criticality in a plane Couette medium. <i>Results in Engineering</i> , 2020, 8, 100169.	5.1	10
36	Computation of heat transfer in magnetised Blasius flow of nano-fluids with suspended carbon nanotubes through a moving flat plate. <i>International Journal of Ambient Energy</i> , 2022, 43, 7657-7665.	2.5	10

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37	The variable viscosity effects on hydromagnetic couple stress heat generating porous fluid flow with convective wall cooling. <i>Scientific African</i> , 2020, 9, e00495.	1.5	9
38	ON FREE CONVECTION FLOW OF A MOVING VERTICAL PERMEABLE PLATE WITH QUADRATIC BOUSSINESQ APPROXIMATION AND VARIABLE THERMAL CONDUCTIVITY. <i>Heat Transfer Research</i> , 2021, 52, 55-66.	1.6	9
39	Reaction-diffusion of double exothermic couple stress fluid and thermal criticality with Reynold's viscosity and optical radiation. <i>Chemical Physics</i> , 2022, 561, 111601.	1.9	9
40	On Criticality for a Branched-chain Thermal Reactive-Diffusion in a Cylinder. <i>Combustion Science and Technology</i> , 2020, , 1-15.	2.3	8
41	On Criticality for a Generalized Couette Flow of a Branch-Chain Thermal Reactive Third-Grade Fluid with Reynold's Viscosity Model. <i>Scientific World Journal</i> , The, 2020, 2020, 1-10.	2.1	8
42	Thermodynamic analysis of a tangent hyperbolic hydromagnetic heat generating fluid in quadratic Boussinesq approximation. <i>Journal of Computational Mathematics and Data Science</i> , 2022, 4, 100058.	2.3	8
43	Investigation of porosity significance on an Oldroyd-B fluid flow transport between parallel plates: Closed form solution. <i>Heat Transfer</i> , 2022, 51, 658-676.	3.0	7
44	Entropy analysis of nonlinear radiative Casson nanofluid transport over an electromagnetic actuator with temperature-dependent properties. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 4, 100152.	2.4	7
45	EFFECT OF NONLINEAR RADIATIVE HEAT AND MASS TRANSFER ON MHD FLOW OVER A STRETCHING SURFACE WITH VARIABLE CONDUCTIVITY AND VISCOSITY. <i>Journal of the Serbian Society for Computational Mechanics</i> , 2019, 13, 86-103.	0.4	6
46	Eigensolutions, scattering phase shift and thermodynamic properties of Hulthén-Yukawa potential. <i>Results in Physics</i> , 2019, 14, 102409.	4.1	5
47	Gradient estimates for a nonlinear elliptic equation on smooth metric measure spaces and applications. <i>Heliyon</i> , 2019, 5, e02784.	3.2	5
48	Bound state solutions of the Schrödinger equation and its application to some diatomic molecules. <i>Journal of Molecular Modeling</i> , 2020, 26, 145.	1.8	5
49	On the Entropy Formulas and Solitons for the Ricci-Harmonic Flow. <i>Bulletin of the Iranian Mathematical Society</i> , 2019, 45, 1177-1192.	1.0	4
50	On the hydromagnetic reaction of Oldroyd 8-constant Arrhenius exothermic fluid and explosion slice-chain in a plane Couette. <i>Chemical Physics Impact</i> , 2022, 4, 100067.	3.5	4
51	Mathematical analysis of affinity hemodialysis on T-Cell depletion. <i>Scientific African</i> , 2020, 8, e00427.	1.5	3
52	Unsteady oscillatory MHD boundary layer flow past a moving plate with mass transfer and binary chemical reaction. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	2
53	Radiative thermal criticality and entropy generation of hydromagnetic reactive Powell-Eyring fluid in saturated porous media with variable conductivity. <i>International Communications in Heat and Mass Transfer</i> , 2021, 124, 104613.	5.6	2
54	Gradient estimates for a weighted nonlinear parabolic equation and applications. <i>Open Mathematics</i> , 2020, 18, 1150-1163.	1.0	2

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55	On the reproduction number and the optimal control of infectious diseases in a heterogenous population. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	2
56	Prevalence of secondary flow due to hall currents on radiative squeezing flow of a CuO-water nanofluid in a rotating channel: numerical prediction. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892210769.	2.5	2
57	Analysis of Pressure-Driven Heat and Mass Transfer of Hydromagnetic Flow Past Darcy-Forchheimer Porous Media Using Lie Group. <i>Journal of Engineering and Applied Sciences</i> , 2019, 14, 4405-4413.	0.2	1
58	Transient Heat and Mass Transfer of Hydromagnetic Effects on the Flow Past a Porous Medium with Movable Vertical Permeablesheet. <i>International Journal of Applied Mechanics and Engineering</i> , 2020, 25, 175-190.	0.7	1
59	Analysis of Entropy Generation in Micropolar Magneto-Nanoliquid Material with Activation Energy and Nonlinear Radiation. <i>Materials Science Forum</i> , 0, 1065, 203-213.	0.3	1
60	Logarithmic-Sobolev and multilinear Hölder's inequalities via heat flow monotonicity formulas. <i>Applied Mathematics and Computation</i> , 2020, 364, 124640.	2.2	0
61	On Ignition Slice-Chain And Heat Distribution Of Magnetohydrodynamic Reactive Oldroyd 8-Constant Flow In A Plane Couette. , 2020, , .		0