

# Ali Saleh Alshomrani

## List of Publications by Year in descending order

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82  
papers

2,106  
citations

186265

28  
h-index

254184

43  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1186  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical soliton perturbation for Radhakrishnanâ€™Kunduâ€™Lakshmanan equation with a couple of integration schemes. <i>Optik</i> , 2018, 163, 126-136.	2.9	128
2	Magnetohydrodynamic Nanoliquid Thin Film Sprayed on a Stretching Cylinder with Heat Transfer. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 271.	2.5	126
3	Non-linear radiative flow of three-dimensional Burgers nanofluid with new mass flux effect. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 570-576.	4.8	125
4	Impact of chemical processes on magneto nanoparticle for the generalized Burgers fluid. <i>Journal of Molecular Liquids</i> , 2017, 234, 201-208.	4.9	115
5	Optical soliton perturbation with full nonlinearity for Kunduâ€™Eckhaus equation by modified simple equation method. <i>Optik</i> , 2018, 157, 1376-1380.	2.9	82
6	Optical soliton perturbation for complex Ginzburgâ€™Landau equation with modified simple equation method. <i>Optik</i> , 2018, 158, 399-415.	2.9	80
7	Impact of chemical processes on 3D Burgers fluid utilizing Cattaneo-Christov double-diffusion: Applications of non-Fourier's heat and non-Fick's mass flux models. <i>Journal of Molecular Liquids</i> , 2016, 223, 1039-1047.	4.9	63
8	Effects of melting and heat generation/absorption on unsteady Falkner-Skan flow of Carreau nanofluid over a wedge. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 437-446.	4.8	56
9	Optical soliton perturbation with Gerdjikovâ€™Ivanov equation by modified simple equation method. <i>Optik</i> , 2018, 157, 1235-1240.	2.9	52
10	On multiple solutions of non-Newtonian Carreau fluid flow over an inclined shrinking sheet. <i>Results in Physics</i> , 2018, 8, 926-932.	4.1	52
11	Assessment on characteristics of heterogeneous-homogenous processes in three-dimensional flow of Burgers fluid. <i>Results in Physics</i> , 2016, 6, 772-779.	4.1	48
12	Numerical investigation of generalized Fourier's and Fick's laws for Sisko fluid flow. <i>Journal of Molecular Liquids</i> , 2016, 224, 1016-1021.	4.9	48
13	Solitons for perturbed Gerdjikovâ€™Ivanov equation in optical fibers and PCF by extended Kudryashovâ€™s method. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	48
14	Interaction of uranium(VI) with titanate nanotubes by macroscopic and spectroscopic investigation. <i>Journal of Molecular Liquids</i> , 2015, 212, 563-568.	4.9	47
15	Optical soliton perturbation with complex Ginzburgâ€™Landau equation using trial solution approach. <i>Optik</i> , 2018, 160, 44-60.	2.9	47
16	Mathematical modeling for novel coronavirus (<sc>COVID</sc>â€19) and control. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 760-776.	3.6	47
17	Magnetic field effect on Poiseuille flow and heat transfer of carbon nanotubes along a vertical channel filled with Casson fluid. <i>AIP Advances</i> , 2017, 7, .	1.3	46
18	Bright, dark and W-shaped solitons with extended nonlinear SchrÃ¶dinger's equation for odd and even higher-order terms. <i>Superlattices and Microstructures</i> , 2018, 114, 53-61.	3.1	44

#	ARTICLE	IF	CITATIONS
19	MHD Stagnation-Point Flow of a Carreau Fluid and Heat Transfer in the Presence of Convective Boundary Conditions. PLoS ONE, 2016, 11, e0157180.	2.5	42
20	A convective study of Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O and Cu- H <sub>2</sub> O nano-liquid films sprayed over a stretching cylinder with viscous dissipation. European Physical Journal Plus, 2017, 132, 1.	2.6	40
21	Thermo-physical aspects in tangent hyperbolic fluid flow regime: A short communication. Case Studies in Thermal Engineering, 2018, 12, 203-212.	5.7	40
22	Numerical simulation for flow and heat transfer to Carreau fluid with magnetic field effect: Dual nature study. Journal of Magnetism and Magnetic Materials, 2017, 443, 13-21.	2.3	39
23	Characteristics of melting heat transfer during flow of Carreau fluid induced by a stretching cylinder. European Physical Journal E, 2017, 40, 8.	1.6	37
24	Entropy Generation in Magnetohydrodynamic Mixed Convection Flow over an Inclined Stretching Sheet. Entropy, 2017, 19, 10.	2.2	35
25	Solitons in optical metamaterials with anti-cubic nonlinearity. European Physical Journal Plus, 2018, 133, 1.	2.6	35
26	On unsteady heat and mass transfer in Carreau nanofluid flow over expanding or contracting cylinder with convective surface conditions. Journal of Molecular Liquids, 2017, 231, 474-484.	4.9	34
27	A 3D Sisko fluid flow with Cattaneo-Christov heat flux model and heterogeneous-homogeneous reactions: A numerical study. Journal of Molecular Liquids, 2017, 238, 19-26.	4.9	34
28	Thermal and concentration aspects in Carreau viscosity model via wedge. Case Studies in Thermal Engineering, 2018, 12, 126-133.	5.7	30
29	A numerical algorithm based on modified cubic trigonometric B-spline functions for computational modelling of hyperbolic-type wave equations. Engineering Computations, 2017, 34, 1257-1276.	1.4	29
30	Investigation of dual solutions in flow of a non-Newtonian fluid with homogeneousâ€“heterogeneous reactions: Critical points. European Journal of Mechanics, B/Fluids, 2018, 68, 30-38.	2.5	28
31	Sensitivity Analysis and Optimal Control of Anthroponotic Cutaneous Leishmania. PLoS ONE, 2016, 11, e0160513.	2.5	28
32	Numerical Investigation for Bio-convection Flow of Viscoelastic Nanofluid with Magnetic Dipole and Motile Microorganisms. Arabian Journal for Science and Engineering, 2021, 46, 5945-5956.	3.0	23
33	Haar wavelet quasilinearization approach for MHD Falknerâ€“Skan flow over permeable wall via Lie group method. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1332-1350.	2.8	22
34	General efficient class of Steffensen type methods with memory for solving systems of nonlinear equations. Journal of Computational and Applied Mathematics, 2019, 352, 23-39.	2.0	21
35	Chaos in a nonautonomous eco-epidemiological model with delay. Applied Mathematical Modelling, 2020, 79, 865-880.	4.2	21
36	Effects of Homogeneousâ€“Heterogeneous Reactions and Convective Condition in Darcyâ€“Forchheimer Flow of Carbon Nanotubes. Journal of Heat Transfer, 2019, 141, .	2.1	19

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37	Effect of Multiple Delays in an Eco-Epidemiological Model with Strong Allee Effect. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750167.	1.7	17
38	A new algorithm based on modified trigonometric cubic B-splines functions for nonlinear Burgers's-type equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1638-1661.	2.8	17
39	An optimal scheme for multiple roots of nonlinear equations with eighth-order convergence. Journal of Mathematical Chemistry, 2018, 56, 2069-2084.	1.5	17
40	New analytical solutions of heat transfer flow of clay-water base nanoparticles with the application of novel hybrid fractional derivative. Thermal Science, 2020, 24, 343-350.	1.1	17
41	Multiple physical aspects during the flow and heat transfer analysis of Carreau fluid with nanoparticles. Scientific Reports, 2018, 8, 17402.	3.3	15
42	Existence theory and numerical simulation of HIV-1 cure model with new fractional derivative possessing a non-singular kernel. Advances in Difference Equations, 2019, 2019, .	3.5	15
43	Pure-Cubic Optical Soliton Perturbation with Complex Ginzburg-Landau Equation Having a Dozen Nonlinear Refractive Index Structures. Journal of Communications Technology and Electronics, 2021, 66, 481-544.	0.5	15
44	Spreading dynamic of acute and carrier hepatitis B with nonlinear incidence. PLoS ONE, 2018, 13, e0191914.	2.5	12
45	Magnetohydrodynamics thin film fluid flow under the effect of thermophoresis and variable fluid properties. AIChE Journal, 2017, 63, 5149-5158.	3.6	11
46	Optimal control strategy of HIV-1 epidemic model for recombinant virus. Cogent Mathematics, 2017, 4, 1293468.	0.4	10
47	Shock waves analysis of planar and non planar nonlinear Burgers's equation using Scale-2 Haar wavelets. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1814-1850.	2.8	10
48	Heat Transfer Investigation of the Unsteady Thin Film Flow of Williamson Fluid Past an Inclined and Oscillating Moving Plate. Applied Sciences (Switzerland), 2017, 7, 369.	2.5	10
49	One Parameter Optimal Derivative-Free Family to Find the Multiple Roots of Algebraic Nonlinear Equations. Mathematics, 2020, 8, 2223.	2.2	10
50	Luminance Learning for Remotely Sensed Image Enhancement Guided by Weighted Least Squares. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	10
51	The Effects of Time Lag and Cure Rate on the Global Dynamics of HIV-1 Model. BioMed Research International, 2017, 2017, 1-11.	1.9	9
52	Investigation of $^{90}\text{Sr}(\text{II})$ sorption onto graphene oxides studied by macroscopic experiments and theoretical calculations. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 721-732.	1.5	8
53	On Generalized Fourier's and Fick's Laws in Bio-Convection Flow of Magnetized Burgers's Nanofluid Utilizing Motile Microorganisms. Mathematics, 2020, 8, 1186.	2.2	8
54	Thermal analysis of magnetohydrodynamic viscous fluid with innovative fractional derivative. Thermal Science, 2020, 24, 351-359.	1.1	8

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55	Control strategies and sensitivity analysis of anthroponotic visceral leishmaniasis model. Journal of Biological Dynamics, 2017, 11, 323-338.	1.7	7
56	Dynamics of COVID-19 via singular and non-singular fractional operators under real statistical observations. Mathematical Methods in the Applied Sciences, 2024, 47, 3079-3100.	2.3	6
57	Novel numerical analysis for nonlinear advection-reaction-diffusion systems. Open Physics, 2020, 18, 112-125.	1.7	6
58	Eighth-Order Compact Finite Difference Scheme for 1D Heat Conduction Equation. Advances in Numerical Analysis, 2016, 2016, 1-12.	0.2	5
59	Frozen Jacobian Multistep Iterative Method for Solving Nonlinear IVPs and BVPs. Complexity, 2017, 2017, 1-30.	1.6	5
60	Generalized newton multi-step iterative methods GMN <sub>p,m</sub> for solving system of nonlinear equations. International Journal of Computer Mathematics, 2018, 95, 881-897.	1.8	4
61	New Iterative Methods for Solving Nonlinear Problems with One and Several Unknowns. Mathematics, 2018, 6, 296.	2.2	4
62	A new generalization of the fractional Euler-Lagrange equation for a vertical mass-spring-damper. JVC/Journal of Vibration and Control, 2020, , 107754632096168.	2.6	4
63	A new analytical approach for solving nonlinear boundary value problems arising in nonlinear phenomena. Filomat, 2018, 32, 2489-2497.	0.5	4
64	The natural convective graphene oxide nanofluid flow in an upright squeezing channel. Thermal Science, 2019, 23, 1981-1989.	1.1	4
65	A strategy for a disease-free system-an eco-epidemiological model based study. Journal of Applied Mathematics and Computing, 2017, 55, 563-590.	2.5	3
66	Reduced-order modellin for high-pressure transient flow of hydrogen-natural gas mixture. European Physical Journal Plus, 2017, 132, 1.	2.6	3
67	A Preconditioned Iterative Method for Solving Systems of Nonlinear Equations Having Unknown Multiplicity. Algorithms, 2017, 10, 17.	2.1	3
68	Local convergence of parameter based method with six and eighth order of convergence. Journal of Mathematical Chemistry, 2020, 58, 841-853.	1.5	3
69	Multi-step preconditioned Newton methods for solving systems of nonlinear equations. SeMA Journal, 2018, 75, 127-137.	2.0	2
70	High Convergence Order Iterative Procedures for Solving Equations Originating from Real Life Problems. Mathematics, 2019, 7, 855.	2.2	2
71	A new two-point scheme for multiple roots of nonlinear equations. Mathematical Methods in the Applied Sciences, 2020, 43, 2421-2443.	2.3	2
72	An Optimal Reconstruction of Chebyshev-Halley-Type Methods with Local Convergence Analysis. International Journal of Computational Methods, 2020, 17, 1940017.	1.3	2

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73	Significance of Velocity Slip in Convective Flow of Carbon Nanotubes. <i>Symmetry</i> , 2019, 11, 679.	2.2	1
74	Local Convergence of a Family of Weighted-Newton Methods. <i>Symmetry</i> , 2019, 11, 103.	2.2	1
75	A general class of optimal eighth-order derivative free methods for nonlinear equations. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 854-867.	1.5	1
76	Extended and unified local convergence of k-step solvers for equations with applications. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 7747-7755.	2.3	1
77	New analytical solutions of heat transfer flow of clay-water base nanoparticles with the application of novel hybrid fractional derivative. <i>Thermal Science</i> , 2020, 24, 343-350.	1.1	1
78	Thermal analysis of magnetohydrodynamic viscous fluid with innovative fractional derivative. <i>Thermal Science</i> , 2020, 24, 351-359.	1.1	1
79	Two general higher-order derivative free iterative techniques having optimal convergence order. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 918-938.	1.5	0
80	Ball convergence for a family of eight-order iterative schemes under hypotheses only of the first-order derivative. <i>International Journal of Computer Mathematics</i> , 2020, 97, 444-454.	1.8	0
81	ADOPTION OF VIBRATION OF FUZZY PARTIAL FRACTIONAL-ORDER EQUATION IN MONITORING OF NOISE BIG DATA UNDER INFINITE IMPULSE RESPONSE DIGITAL FILTER ALGORITHM. <i>Fractals</i> , 2022, 30, .	3.7	0
82	Fluid relaxation and retardation time properties in the flow of Burgers fluid subject to modified heat and mass flux theory. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892110670.	2.5	0