

Hussam Alrabaiah

List of Publications by Year in descending order

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54
papers

1,632
citations

304602

22
h-index

345118

36
g-index

55
all docs

55
docs citations

55
times ranked

1080
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical and qualitative investigation of COVID-19 mathematical model under fractional differential operator. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 8223-8242.	1.2	6
2	A numerical method for fractional variable order pantograph differential equations based on Haar wavelet. <i>Engineering With Computers</i> , 2022, 38, 2655-2668.	3.5	17
3	Parametric estimation of gyrotactic microorganism hybrid nanofluid flow between the conical gap of spinning disk-cone apparatus. <i>Scientific Reports</i> , 2022, 12, 59.	1.6	39
4	Induced magnetic field and viscous dissipation on flows of two immiscible fluids in a rectangular channel. <i>Scientific Reports</i> , 2022, 12, 39.	1.6	12
5	Multiattribute decision-making by logarithmic operational laws in interval neutrosophic environments. <i>Granular Computing</i> , 2022, 7, 837-860.	4.4	8
6	A comparative study of spreading of novel corona virus disease by using fractional order modified SEIR model. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 573-585.	3.4	28
7	Impact of predator incited fear and prey refuge in a fractional order prey predator model. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110420.	2.5	39
8	COMPUTATIONAL MODELING AND THEORETICAL ANALYSIS OF NONLINEAR FRACTIONAL ORDER PREY-PREDATOR SYSTEM. <i>Fractals</i> , 2021, 29, 2150001.	1.8	6
9	Evaluation of silk-based bioink during pre and post 3D bioprinting: A review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 279-293.	1.6	26
10	Radiative flow of MHD non-Newtonian fluid by utilizing the updated version of heat flux model under Joule heating. <i>Heat Transfer</i> , 2021, 50, 3407-3425.	1.7	6
11	A fractional order mathematical model for COVID-19 dynamics with quarantine, isolation, and environmental viral load. <i>Advances in Difference Equations</i> , 2021, 2021, 106.	3.5	75
12	Mathematical analysis of SIRD model of COVID-19 with Caputo fractional derivative based on real data. <i>Results in Physics</i> , 2021, 21, 103772.	2.0	70
13	Mathematical analysis of COVID-19 via new mathematical model. <i>Chaos, Solitons and Fractals</i> , 2021, 143, 110585.	2.5	40
14	Analytical study of MHD mixed convection flow for Maxwell nanofluid with variable thermal conductivity and Soret and Dufour effects. <i>AIP Advances</i> , 2021, 11, .	0.6	19
15	A stochastic numerical analysis based on hybrid NAR-RBFs networks nonlinear SITR model for novel COVID-19 dynamics. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 202, 105973.	2.6	113
16	Investigation of fractal-fractional order model of COVID-19 in Pakistan under Atangana-Baleanu Caputo (ABC) derivative. <i>Results in Physics</i> , 2021, 24, 104046.	2.0	45
17	Design of an efficient algorithm for solution of Bratu differential equations. <i>Ain Shams Engineering Journal</i> , 2021, 12, 2211-2225.	3.5	14
18	Inclusion of hybrid nanoparticles in hyperbolic tangent material to explore thermal transportation via finite element approach engaging Cattaneo-Christov heat flux. <i>PLoS ONE</i> , 2021, 16, e0256302.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Dynamical analysis of fractional-order tobacco smoking model containing snuffing class. AEJ - Alexandria Engineering Journal, 2021, 60, 3669-3678.	3.4	23
20	Significant Involvement of Double Diffusion Theories on Viscoelastic Fluid Comprising Variable Thermophysical Properties. Micromachines, 2021, 12, 951.	1.4	25
21	Finite element simulations of hybrid nano-Carreau Yasuda fluid with hall and ion slip forces over rotating heated porous cone. Scientific Reports, 2021, 11, 19604.	1.6	44
22	Numerical exploration of thermal transport in water-based nanoparticles: A computational strategy. Case Studies in Thermal Engineering, 2021, 27, 101334.	2.8	23
23	The investigation of energy management and atomic interaction between coronavirus structure in the vicinity of aqueous environment of H2O molecules via molecular dynamics approach. Journal of Molecular Liquids, 2021, 341, 117430.	2.3	2
24	MHD stagnation point flow of hybrid nanofluid over a permeable cylinder with homogeneous and heterogenous reaction. Physica Scripta, 2021, 96, 035201.	1.2	13
25	Numerical exploration of thermal and mass transportation by utilising non-Fourier double diffusion theories for Casson model under Hall and ion slip effects. Pramana - Journal of Physics, 2021, 95, 1.	0.9	7
26	Utilization of Chebyshev collocation approach for differential, differential-difference and integro-differential equations. Arab Journal of Basic and Applied Sciences, 2021, 28, 413-426.	1.0	2
27	Time fractional model of electro-osmotic Brinkman-type nanofluid with heat generation and chemical reaction effects: application in cleansing of contaminated water. Scientific Reports, 2021, 11, 24402.	1.6	12
28	Theoretical and numerical investigation of entropy for the variable thermophysical characteristics of couple stress material: Applications to optimization. AEJ - Alexandria Engineering Journal, 2020, 59, 4365-4375.	3.4	36
29	Viscous dissipated hybrid nanoliquid flow with Darcy's Forchheimer and forced convection over a moving thin needle. AIP Advances, 2020, 10, .	0.6	28
30	Entropy optimization in MHD nanofluid flow over a curved exponentially stretching surface with binary chemical reaction and Arrhenius activation energy. Journal of Physics Communications, 2020, 4, 075021.	0.5	12
31	Exploring undergraduate students' attitudes towards emergency online learning during COVID-19: A case from the UAE. Children and Youth Services Review, 2020, 119, 105699.	1.0	157
32	Chemically reactive MHD micropolar nanofluid flow with velocity slips and variable heat source/sink. Scientific Reports, 2020, 10, 20926.	1.6	51
33	Existence theory and semi-analytical study of non-linear Volterra fractional integro-differential equations. AEJ - Alexandria Engineering Journal, 2020, 59, 4677-4686.	3.4	7
34	Design of Neural Network With Levenberg-Marquardt and Bayesian Regularization Backpropagation for Solving Pantograph Delay Differential Equations. IEEE Access, 2020, 8, 137918-137933.	2.6	80
35	Unsteady Ferrofluid Slip Flow in the Presence of Magnetic Dipole With Convective Boundary Conditions. IEEE Access, 2020, 8, 138551-138562.	2.6	15
36	Numerical simulation of the combined effects of thermophoretic motion and variable thermal conductivity on free convection heat transfer. AIP Advances, 2020, 10, .	0.6	18

#	ARTICLE	IF	CITATIONS
37	Radiative mixed convection flow of maxwell nanofluid over a stretching cylinder with joule heating and heat source/sink effects. Scientific Reports, 2020, 10, 17823.	1.6	62
38	Numerical investigation for rotating flow of MHD hybrid nanofluid with thermal radiation over a stretching sheet. Scientific Reports, 2020, 10, 18533.	1.6	135
39	Analysis of Multi-Phase Flow Through Porous Media for Imbibition Phenomena by Using the LeNN-WOA-NM Algorithm. IEEE Access, 2020, 8, 196425-196458.	2.6	28
40	Thermal Radiations and Mass Transfer Analysis of the Three-Dimensional Magnetite Carreau Fluid Flow Past a Horizontal Surface of Paraboloid of Revolution. Processes, 2020, 8, 656.	1.3	14
41	Non Pharmaceutical Interventions for Optimal Control of COVID-19. Computer Methods and Programs in Biomedicine, 2020, 196, 105642.	2.6	45
42	Series solutions for nonlinear time-fractional Schrödinger equations: Comparisons between conformable and Caputo derivatives. AEJ - Alexandria Engineering Journal, 2020, 59, 2101-2114.	3.4	44
43	Computation of solution to fractional order partial reaction diffusion equations. Journal of Advanced Research, 2020, 25, 31-38.	4.4	18
44	CNTs-Nanofluid flow in a Rotating system between the gap of a disk and cone. Physica Scripta, 2020, 95, 125202.	1.2	32
45	Students' Perception of Online Assessment During the COVID-19 Pandemic: The Case of Undergraduate Students in the UAE. , 2020, , .		5
46	Qualitative analysis of nonlinear coupled pantograph differential equations of fractional order with integral boundary conditions. Boundary Value Problems, 2020, 2020, .	0.3	15
47	Fractional dynamical analysis of measles spread model under vaccination corresponding to nonsingular fractional order derivative. Advances in Difference Equations, 2020, 2020, .	3.5	13
48	Computational exploration for radiative flow of Sutterby nanofluid with variable temperature-dependent thermal conductivity and diffusion coefficient. Open Physics, 2020, 18, 1073-1083.	0.8	54
49	Existence of fractional order semianalytical results for enzyme kinetics model. Advances in Difference Equations, 2020, 2020, .	3.5	4
50	Note about Bias in Bayesian Genetic Algorithms for Discrete Missing Values Imputation. , 2019, , .		0
51	Technology for Promoting Academic Integrity: The Impact of Using Turnitin on Reducing Plagiarism. , 2019, , .		4
52	On coupled nonlinear evolution system of fractional order with a proportional delay. Mathematical Methods in the Applied Sciences, 0, , .	1.2	0
53	APPROXIMATE SOLUTION OF FORNBERG'S WHITHAM EQUATION BY MODIFIED HOMOTOPY PERTURBATION METHOD UNDER NON-SINGULAR FRACTIONAL DERIVATIVE. Fractals, 0, , .	1.8	2
54	A comparative analysis of MHD Casson and Maxwell flows past a stretching sheet with mixed convection and chemical reaction. Waves in Random and Complex Media, 0, , 1-16.	1.6	8