Faris S Alzahrani

List of Publications by Year
in descending order

130 papers	2,913 citations	159585 30 h-index	214800 47 g-index
131 all docs	131 docs citations	131 times ranked	1776 citing authors

#	Article	IF	Citations
1	Mathematical modeling and heat transfer in nanofluid flow of Newtonian material between two rotating disks. Applied Nanoscience (Switzerland), 2023, 13, 201-212.	3.1	7
2	Al₂O₃–47 nm and Al₂O₃–36 nm characterizations of nonlinear differential equations for biomedical applications: Magnetized peristaltic transport. Numerical Methods for Partial Differential Equations, 2023, 39, 827-847.	3.6	0
3	A Study of Photo-Thermoelastic Wave in Semiconductor Materials with Spherical Holes Using Analytical-Numerical Methods. Silicon, 2022, 14, 4027-4033.	3.3	2
4	Qualitative behavior and solution of a system of three-dimensional rational difference equations. Mathematical Methods in the Applied Sciences, 2022, 45, 5456-5470.	2.3	6
5	Flow Analysis of Two-Layer Nano/Johnson–Segalman Fluid in a Blood Vessel-like Tube with Complex Peristaltic Wave. Mathematical Problems in Engineering, 2022, 2022, 1-18.	1.1	13
6	Transportation of melting heat transport in bio-convective Pseudoplastic nanoparticles flow over bidirectional stretched Riga device. European Physical Journal Plus, 2022, 137, 1.	2.6	0
7	Melting aspects in flow of second grade nanomaterial with homogeneous–heterogeneous reactions and irreversibility phenomenon: A residual error analysis. Progress in Reaction Kinetics and Mechanism, 2022, 47, 146867832210903.	2.1	1
8	Electroosmotic impacts on hybrid antimicrobial blood stream through catheterized stenotic aneurysmal artery. European Physical Journal Plus, 2022, 137, .	2.6	7
9	Analytical solutions of thermal damage in living tissues due to laser irradiation. Waves in Random and Complex Media, 2021, 31, 1443-1456.	2.7	24
10	Double-diffusivity heat generation effects on bioconvection process embedded in a vertical porous surface with variable fluid properties. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2571-2580.	3.6	1
11	Numerical simulation for the mixed convective flow of non-Newtonian fluid with activation energy and entropy generation. Mathematical Methods in the Applied Sciences, 2021, 44, 7766-7777.	2.3	45
12	Analysis of Buongiorno's nanofluid model in marangoni convective flow with gyrotactic microorganism and activation energy. International Journal of Modern Physics C, 2021, 32, 2150072.	1.7	3
13	Robust non-fragile memory feedback control for multi-weighted complex dynamical networks with randomly occurring gain fluctuations. International Journal of Systems Science, 2021, 52, 2597-2616.	5.5	6
14	Dynamics of Activation Energy and Nonlinear Mixed Convection in Darcy-Forchheimer Radiated Flow of Carreau Nanofluid Near Stagnation Point Region. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	41
15	Two-dimensional thin layer convective flow with heat transfer from magneto-hydrodynamic uniform free convection flow driven by nonlinear stretching surface. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000103.	1.6	1
16	A study on photo-thermo-elastic wave in a semi-conductor material caused by ramp-type heating. AEJ - Alexandria Engineering Journal, 2021, 60, 2033-2040.	6.4	6
17	Energy analysis of non-Newtonian nanofluid flow over parabola of revolution on the horizontal surface with catalytic chemical reaction. Heat Transfer, 2021, 50, 6189-6209.	3.0	39
18	Dynamics and Solutions' Expressions of a Higher-Order Nonlinear Fractional Recursive Sequence. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	7

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19	Sharp bounds for a ratio of the q-gamma function in terms of the q-digamma function. Journal of Inequalities and Applications, 2021, 2021, .	1.1	1
20	Nonlinear dissipative slip flow of Jeffrey nanomaterial towards a curved surface with entropy generation and activation energy. Mathematics and Computers in Simulation, 2021, 185, 47-61.	4.4	111
21	Electroosmosis–modulated bio–flow of nanofluid through a rectangular peristaltic pump induced by complex traveling wave with zeta potential and heat source. Electrophoresis, 2021, 42, 2143-2153.	2.4	15
22	Bioconvection Reiner-Rivlin Nanofluid Flow between Rotating Circular Plates with Induced Magnetic Effects, Activation Energy and Squeezing Phenomena. Mathematics, 2021, 9, 2139.	2.2	32
23	An Infinite System of Fractional Order with p-Laplacian Operator in a Tempered Sequence Space via Measure of Noncompactness Technique. Fractal and Fractional, 2021, 5, 182.	3.3	10
24	Significance of heat conduction in binary reactive flow of Walter's B fluid with radiative flux and activation energy. Modern Physics Letters B, 2021, 35, .	1.9	1
25	Compact and Noncompact Solutions to Generalized Sturm–Liouville and Langevin Equation with Caputo–Hadamard Fractional Derivative. Mathematical Problems in Engineering, 2021, 2021, 1-15.	1.1	5
26	Quantized guaranteed cost memory consensus for nonlinear multi-agent systems with switching topology and actuator faults. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122946.	2.6	9
27	Field coupling synchronization between chaotic circuits via a memristor. AEU - International Journal of Electronics and Communications, 2020, 115, 153050.	2.9	17
28	Synchronization of semi-Markov coupled neural networks with impulse effects and leakage delay. Neurocomputing, 2020, 386, 221-231.	5.9	22
29	Boundary layer flow of a nanofluid past a horizontal flat plate in a Darcy porous medium: A Lie group approach. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 1545-1553.	2.1	14
30	Autonomic learning via saturation gain method, and synchronization between neurons. Chaos, Solitons and Fractals, 2020, 131, 109533.	5.1	29
31	Attainability to Solve Fractional Differential Inclusion on the Half Line at Resonance. Complexity, 2020, 2020, 1-13.	1.6	8
32	Fully developed second order velocity slip Darcy-Forchheimer flow by a variable thicked surface of disk with entropy generation. International Communications in Heat and Mass Transfer, 2020, 117, 104778.	5.6	86
33	Analytical Estimation of Temperature in Living Tissues Using the TPL Bioheat Model with Experimental Verification. Mathematics, 2020, 8, 1188.	2.2	21
34	Dual solution of boundary-layer flow driven by variable plate and streaming-free velocity. Advances in Mechanical Engineering, 2020, 12, 168781402093084.	1.6	1
35	Three-phase lag model of thermo-elastic interaction in a 2D porous material due to pulse heat flux. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 5191-5207.	2.8	7
36	Transportation of nonlinear radiative heat flux in Al2O3–Cu/H2O hybrid nanofluid subject to dissipation energy: Dual solutions analysis. AIP Advances, 2020, 10, .	1.3	11

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37	The Effect of a Hyperbolic Two-Temperature Model with and without Energy Dissipation in a Semiconductor Material. Mathematics, 2020, 8, 1711.	2.2	5
38	Stability theory of nano-fluid over an exponentially stretching cylindrical surface containing microorganisms. Scientific Reports, 2020, 10, 17004.	3.3	8
39	The Effects of Variable Thermal Conductivity in Semiconductor Materials Photogenerated by a Focused Thermal Shock. Mathematics, 2020, 8, 1230.	2.2	11
40	Characterization of thermal-dependent conductivity in Cattaneoâ€"Christov (CC)-based buoyancy-driven incompressible flow. Applied Nanoscience (Switzerland), 2020, 10, 5441-5447.	3.1	1
41	Generalized Thermoelastic Interactions in a Poroelastic Material Without Energy Dissipations. International Journal of Thermophysics, 2020, 41, 1.	2.1	15
42	Binary chemical reaction with activation energy in dissipative flow of non-Newtonian nanomaterial. Journal of Theoretical and Computational Chemistry, 2020, 19, 2040006.	1.8	84
43	Numerical study of blood flow and heat transfer through stretching cylinder in the presence of a magnetic dipole. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900278.	1.6	19
44	Modeling of Cattaneo-Christov double diffusions (CCDD) in Williamson nanomaterial slip flow subject to porous medium. Journal of Materials Research and Technology, 2020, 9, 6172-6177.	5.8	81
45	An Eigenvalues Approach for a Two-Dimensional Porous Medium Based Upon Weak, Normal and Strong Thermal Conductivities. Symmetry, 2020, 12, 848.	2.2	107
46	Coupled System of Nonlinear Fractional Langevin Equations with Multipoint and Nonlocal Integral Boundary Conditions. Mathematical Problems in Engineering, 2020, 2020, 1-15.	1.1	19
47	Entropy-optimized dissipative flow of Carreauâ€"Yasuda fluid with radiative heat flux and chemical reaction. European Physical Journal Plus, 2020, 135, 1.	2.6	43
48	Dissipative-based non-fragile filtering for fuzzy networked control systems with switching communication channels. Applied Mathematics and Computation, 2020, 373, 125011.	2.2	15
49	Similarity solution of MHD slip with energy mass transport through chemically reacting stretching permeable surface in porous media with variable properties. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 124255.	2.6	3
50	The Effect of Fractional Time Derivative of Bioheat Model in Skin Tissue Induced to Laser Irradiation. Symmetry, 2020, 12, 602.	2.2	95
51	Photo-Thermal Interactions in a Semiconducting Media with a Spherical Cavity under Hyperbolic Two-Temperature Model. Mathematics, 2020, 8, 585.	2.2	25
52	A new photosensitive neuron model and its dynamics. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 1387-1396.	2.6	84
53	Fault-tolerant H_{∞} filtering for fuzzy networked control systems with quantisation effects. International Journal of Systems Science, 2020, 51, 1149-1161.	5.5	8
54	Synchronization of decentralized event-triggered uncertain switched neural networks with two additive time-varying delays. Nonlinear Analysis: Modelling and Control, 2020, 25, .	1.6	0

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55	Synchronization and wave propagation in neuronal network under field coupling. Science China Technological Sciences, 2019, 62, 448-457.	4.0	77
56	Decentralized Fault-tolerant Resilient Control for Fractional-order Interconnected Systems with Input Saturation. International Journal of Control, Automation and Systems, 2019, 17, 2895-2905.	2.7	8
57	High-Efficiency Three-Party Quantum Key Agreement Protocol with Quantum Dense Coding and Bell States. International Journal of Theoretical Physics, 2019, 58, 2834-2846.	1.2	11
58	On existence and uniqueness of weak solutions for linear pantographic beam lattices models. Continuum Mechanics and Thermodynamics, 2019, 31, 1843-1861.	2.2	35
59	Study of non-isothermal incompressible flow and heat flux of nano-ferrofluid with induced magnetic induction. International Communications in Heat and Mass Transfer, 2019, 109, 104352.	5.6	7
60	Two-dimensional gyrotactic microorganisms flow of hydromagnetic power law nanofluid past an elongated sheet. Advances in Mechanical Engineering, 2019, 11, 168781401988125.	1.6	26
61	Analytical estimations of temperature in a living tissue generated by laser irradiation using experimental data. Journal of Thermal Biology, 2019, 85, 102421.	2.5	66
62	Heat and Mass Transfer in a Viscous Nanofluid Containing a Gyrotactic Micro-Organism Over a Stretching Cylinder. Symmetry, 2019, 11, 1131.	2.2	13
63	Dynamics of the nonlinear rational difference equation $$x_{n + 1} = \frac{A x_{n - alpha} x_{n - eta} + B x_{n - gamma}}{C x_{n - alpha} x_{n - eta} + D x_{n - gamma}}$$. Indian Journal of Pure and Applied Mathematics, 2019, 50, 385-401.	0.5	2
64	Fractional Langevin Equations with Nonlocal Integral Boundary Conditions. Mathematics, 2019, 7, 402.	2.2	35
65	Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. Continuum Mechanics and Thermodynamics, 2019, 31, 1231-1282.	2.2	212
66	On mechanically driven biological stimulus for bone remodeling as a diffusive phenomenon. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1639-1663.	2.8	66
67	Robust $$H_\infty$$ H âˆž Filtering of Stochastic Switched Complex Dynamical Networks with Parameter Uncertainties, Disturbances, and Time-Varying Delays. Neural Processing Letters, 2019, 50, 227-245.	3.2	2
68	The Effect of Mechanical Load-induced Intraosseous Pressure Gradients on Bone Remodeling. Advanced Structured Materials, 2019, , 29-49.	0.5	1
69	Finiteâ€time boundedness of largeâ€scale systems with actuator faults and gain fluctuations. International Journal of Robust and Nonlinear Control, 2019, 29, 3042-3062.	3.7	8
70	Synchronization of complex dynamical networks with random coupling delay and actuator faults. ISA Transactions, 2019, 94, 57-69.	5.7	18
71	Design of observer-based non-fragile load frequency control for power systems with electric vehicles. ISA Transactions, 2019, 91, 21-31.	5.7	29
72	Quantized Finite-Time Non-fragile Filtering for Singular Markovian Jump Systems with Intermittent Measurements. Circuits, Systems, and Signal Processing, 2019, 38, 3971-3995.	2.0	14

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73	Robust H∞ synchronization of Markov jump stochastic uncertain neural networks with decentralized event-triggered mechanism. Chinese Journal of Physics, 2019, 60, 68-87.	3.9	22
74	Addendum: Salem, A. et al. Fractional Langevin Equations with Nonlocal Integral Boundary Conditions. Mathematics 2019, 7, 402. Mathematics, 2019, 7, 1030.	2.2	1
75	Photo-thermo-elastic interactions without energy dissipation in a semiconductor half-space. Results in Physics, 2019, 15, 102805.	4.1	20
76	Observer‐based modified repetitive control for fractional‐order non‐linear systems with unknown disturbances. IET Control Theory and Applications, 2019, 13, 3132-3138.	2.1	17
77	Mixed H_∞ and passivity-based resilient controller for nonhomogeneous Markov jump systems. Nonlinear Analysis: Hybrid Systems, 2019, 31, 86-99.	3.6	39
78	A DPL model of photothermal interaction in a semiconductor material. Waves in Random and Complex Media, 2019, 29, 328-343.	2.7	99
79	PERIODICITY AND SOLUTIONS OF SOME RATIONAL DIFFERENCE EQUATIONS SYSTEMS. Journal of Applied Analysis and Computation, 2019, 9, 2358-2380.	0.5	5
80	A Diffusion Model for Stimulus Propagation in Remodeling Bone Tissues. Advanced Structured Materials, 2019, , 69-94.	0.5	0
81	Complete Monotonicity property for two functions related to the q-digamma function. Journal of Mathematical Inequalities, 2019, , 37-52.	0.9	2
82	Field coupling-induced pattern formation in two-layer neuronal network. Physica A: Statistical Mechanics and Its Applications, 2018, 501, 141-152.	2.6	22
83	Investigation of dynamical behaviors of neurons driven by memristive synapse. Chaos, Solitons and Fractals, 2018, 108, 15-24.	5.1	43
84	Leader-following exponential consensus of input saturated stochastic multi-agent systems with Markov jump parameters. Neurocomputing, 2018, 287, 84-92.	5.9	51
85	Two-Sided Inequality Involving the q-Gamma Function. International Journal of Applied and Computational Mathematics, 2018, 4, 1.	1.6	0
86	Generalized photo-thermo-elastic interaction in a semiconductor plate with two relaxation times. Thin-Walled Structures, 2018, 129, 342-348.	5.3	9
87	Efficient Entanglement Concentration of Nonlocal Two-Photon Polarization-Time-Bin Hyperentangled States. International Journal of Theoretical Physics, 2018, 57, 664-673.	1.2	2
88	Dynamical behavior and application in Josephson Junction coupled by memristor. Applied Mathematics and Computation, 2018, 321, 290-299.	2.2	50
89	Control of multi-scroll attractors in a memristor-coupled resonator via time-delayed feedback. Modern Physics Letters B, 2018, 32, 1850399.	1.9	14
90	The effect of fractional derivative on photo-thermoelastic interaction in an infinite semiconducting medium with a cylindrical hole. Engineering Solid Mechanics, 2018, , 275-284.	1.2	8

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91	Photo-thermoelastic interactions in a 2D semiconducting medium. European Physical Journal Plus, 2018, 133, 1.	2.6	10
92	Sharp bounds for the Lambert W function. Integral Transforms and Special Functions, 2018, 29, 971-978.	1.2	8
93	One-step entanglements generation on distant superconducting resonators in the dispersive regime. Quantum Information Processing, 2018, 17, 1.	2.2	1
94	Dissipativity-based non-fragile sampled-data control design of interval type-2 fuzzy systems subject to random delays. ISA Transactions, 2018, 83, 154-164.	5.7	40
95	Resilient control design for consensus of nonlinear multi-agent systems with switching topology and randomly varying communication delays. Neurocomputing, 2018, 311, 155-163.	5.9	55
96	Robust spatial-polarization hyperentanglement distribution of two-photon systems against collective noise. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 055502.	1.5	5
97	Practical entanglement concentration of nonlocal polarization-spatial hyperentangled states with linear optics. Quantum Information Processing, 2017, 16, 1.	2.2	3
98	Heralded quantum gates for atomic systems assisted by the scattering of photons off single emitters. Annals of Physics, 2017, 387, 152-165.	2.8	5
99	Hyperentanglement concentration for polarization–spatial–time-bin hyperentangled photon systems with linear optics. Quantum Information Processing, 2017, 16, 1.	2.2	8
100	Hyperentanglement concentration of nonlocal two-photon six-qubit systems with linear optics. Annals of Physics, 2017, 385, 86-94.	2.8	35
101	Self-error-rejecting photonic qubit transmission in polarization-spatial modes with linear optical elements. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	18
102	High-capacity quantum secure direct communication with two-photon six-qubit hyperentangled states. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	90
103	Blowing-up solutions for a nonlinear time-fractional system. Bulletin of Mathematical Sciences, 2017, 7, 201-210.	0.7	12
104	Formation of Autapse Connected to Neuron and Its Biological Function. Complexity, 2017, 2017, 1-9.	1.6	47
105	A Two-Temperature Photothermal Interaction in a Semiconducting Material. Journal of Advanced Physics, 2017, 6, 402-407.	0.4	12
106	Improvements of bounds for the q-gamma and the q-polygamma functions. Journal of Mathematical Inequalities, 2017, , 873-883.	0.9	5
107	Partial slip effect in flow of magnetite-Fe3O4 nanoparticles between rotating stretchable disks. Journal of Magnetism and Magnetic Materials, 2016, 413, 39-48.	2.3	66
108	Eigenvalue approach on a two-dimensional thermal shock problem with weak, normal and strong conductivity. European Physical Journal Plus, 2016, 131, 1.	2.6	3

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109	Wave propagation in a generalized thermoelastic plate using eigenvalue approach. Journal of Thermal Stresses, 2016, 39, 1367-1377.	2.0	63
110	Extraction of the index of refraction by embedding multiple small inclusions. Inverse Problems, 2016, 32, 045004.	2.0	4
111	Nonlocal boundary value problems for impulsive fractional q k q_{k} -difference equations. Advances in Difference Equations, 2016, 2016, .	3.5	0
112	Effects of homogeneousâ€"heterogeneous reactions in flow of magnetite-Fe3O4 nanoparticles by a rotating disk. Journal of Molecular Liquids, 2016, 216, 845-855.	4.9	55
113	Generalized thermoelastic diffusion in a nanoscale beam using eigenvalue approach. Acta Mechanica, 2016, 227, 955-968.	2.1	16
114	Analytical solution of a two-dimensional thermoelastic problem subjected to laser pulse. Steel and Composite Structures, 2016, 21, 791-803.	1.3	6
115	The effect of magnetic field on a thermoelastic fiber-reinforced material under GN-III theory. Steel and Composite Structures, 2016, 22, 369-386.	1.3	8
116	Periodicities and Global Behaviour of Difference Equation of Order Eight. Journal of Computational and Theoretical Nanoscience, 2016, 13, 4932-4940.	0.4	1
117	Dynamics and Behaviour of Some Rational Systems of Difference Equations. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8583-8599.	0.4	2
118	Analytical Solution of Magneto-Thermoelastic Diffusion Problem on a Hollow Cylinder. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4747-4754.	0.4	0
119	New fractional-order multivalued problems with nonlocal nonlinear flux type integral boundary conditions. Boundary Value Problems, 2015, 2015, .	0.7	4
120	Global regularity for the 2D liquid crystal model with mixed partial viscosity. Analysis and Applications, 2015, 13, 185-200.	2.2	11
121	Dynamics of a tethered satellite with variable mass. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 1035-1045.	1.1	3
122	Stability of equilibria points for a dumbbell satellite when the central body is oblate spheroid. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 1047-1054.	1.1	6
123	Two new regularity criteria for the Navierâ€"Stokes equations via two entries of the velocity Hessian tensor. Applied Mathematics Letters, 2014, 37, 124-130.	2.7	6
124	A regularity criterion for the Cahn-Hilliard-Boussinesq system with zero viscosity. Journal of Inequalities and Applications, 2014, 2014, .	1.1	0
125	Heat and mass transfer analysis in the MHD flow of radiative Maxwell nanofluid with non-uniform heat source/sink. Waves in Random and Complex Media, 0, , 1-24.	2.7	14
126	Transportation of binary chemical reaction in entropy optimized micropolar fluid flow with activation energy and internal diffusion effects. Waves in Random and Complex Media, 0, , 1-24.	2.7	1

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127	Eigenvalues approach on thermo-elastic diffusions problem for an infinite material containing spherical holes. Waves in Random and Complex Media, 0, , 1-13.	2.7	0
128	Implication of Revised Fourier Law of Heat Conduction in Flow of Non-Newtonian Nanoliquid Over a Stretched Surface. Arabian Journal for Science and Engineering, 0, , 1.	3.0	2
129	Physical impact of double stratification in Darcyâ€"Forchheimer hybrid nanofluid (Al₂O₃â€"Cuâ€"H₂O) subject to Arrhenius pre-exponential factor law and entropy generation. Waves in Random and Complex Media, 0, , 1-22.	2.7	2
130	Thermophoretic particle diffusion effect in Darcy-Forchheimer Marangoni convective flow of Al₂O₃ nanoparticles by a stretchable surface. Waves in Random and Complex Media, 0, , 1-18.	2.7	0