

Faris S Alzahrani

List of Publications by Year in descending order

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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	Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. <i>Continuum Mechanics and Thermodynamics</i> , 2019, 31, 1231-1282.	2.2	212
2	Nonlinear dissipative slip flow of Jeffrey nanomaterial towards a curved surface with entropy generation and activation energy. <i>Mathematics and Computers in Simulation</i> , 2021, 185, 47-61.	4.4	111
3	An Eigenvalues Approach for a Two-Dimensional Porous Medium Based Upon Weak, Normal and Strong Thermal Conductivities. <i>Symmetry</i> , 2020, 12, 848.	2.2	107
4	A DPL model of photothermal interaction in a semiconductor material. <i>Waves in Random and Complex Media</i> , 2019, 29, 328-343.	2.7	99
5	The Effect of Fractional Time Derivative of Bioheat Model in Skin Tissue Induced to Laser Irradiation. <i>Symmetry</i> , 2020, 12, 602.	2.2	95
6	High-capacity quantum secure direct communication with two-photon six-qubit hyperentangled states. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	90
7	Fully developed second order velocity slip Darcy-Forchheimer flow by a variable thicked surface of disk with entropy generation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104778.	5.6	86
8	Binary chemical reaction with activation energy in dissipative flow of non-Newtonian nanomaterial. <i>Journal of Theoretical and Computational Chemistry</i> , 2020, 19, 2040006.	1.8	84
9	A new photosensitive neuron model and its dynamics. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 1387-1396.	2.6	84
10	Modeling of Cattaneo-Christov double diffusions (CCDD) in Williamson nanomaterial slip flow subject to porous medium. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6172-6177.	5.8	81
11	Synchronization and wave propagation in neuronal network under field coupling. <i>Science China Technological Sciences</i> , 2019, 62, 448-457.	4.0	77
12	Partial slip effect in flow of magnetite-Fe ₃ O ₄ nanoparticles between rotating stretchable disks. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 413, 39-48.	2.3	66
13	Analytical estimations of temperature in a living tissue generated by laser irradiation using experimental data. <i>Journal of Thermal Biology</i> , 2019, 85, 102421.	2.5	66
14	On mechanically driven biological stimulus for bone remodeling as a diffusive phenomenon. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1639-1663.	2.8	66
15	Wave propagation in a generalized thermoelastic plate using eigenvalue approach. <i>Journal of Thermal Stresses</i> , 2016, 39, 1367-1377.	2.0	63
16	Effects of homogeneous and heterogeneous reactions in flow of magnetite-Fe ₃ O ₄ nanoparticles by a rotating disk. <i>Journal of Molecular Liquids</i> , 2016, 216, 845-855.	4.9	55
17	Resilient control design for consensus of nonlinear multi-agent systems with switching topology and randomly varying communication delays. <i>Neurocomputing</i> , 2018, 311, 155-163.	5.9	55
18	Leader-following exponential consensus of input saturated stochastic multi-agent systems with Markov jump parameters. <i>Neurocomputing</i> , 2018, 287, 84-92.	5.9	51

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37	Field coupling-induced pattern formation in two-layer neuronal network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 501, 141-152.	2.6	22
38	Robust H ∞ synchronization of Markov jump stochastic uncertain neural networks with decentralized event-triggered mechanism. <i>Chinese Journal of Physics</i> , 2019, 60, 68-87.	3.9	22
39	Synchronization of semi-Markov coupled neural networks with impulse effects and leakage delay. <i>Neurocomputing</i> , 2020, 386, 221-231.	5.9	22
40	Analytical Estimation of Temperature in Living Tissues Using the TPL Bioheat Model with Experimental Verification. <i>Mathematics</i> , 2020, 8, 1188.	2.2	21
41	Photo-thermo-elastic interactions without energy dissipation in a semiconductor half-space. <i>Results in Physics</i> , 2019, 15, 102805.	4.1	20
42	Numerical study of blood flow and heat transfer through stretching cylinder in the presence of a magnetic dipole. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020, 100, e201900278.	1.6	19
43	Coupled System of Nonlinear Fractional Langevin Equations with Multipoint and Nonlocal Integral Boundary Conditions. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	1.1	19
44	Self-error-rejecting photonic qubit transmission in polarization-spatial modes with linear optical elements. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	18
45	Synchronization of complex dynamical networks with random coupling delay and actuator faults. <i>ISA Transactions</i> , 2019, 94, 57-69.	5.7	18
46	Observer-based modified repetitive control for fractional-order nonlinear systems with unknown disturbances. <i>IET Control Theory and Applications</i> , 2019, 13, 3132-3138.	2.1	17
47	Field coupling synchronization between chaotic circuits via a memristor. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 115, 153050.	2.9	17
48	Generalized thermoelastic diffusion in a nanoscale beam using eigenvalue approach. <i>Acta Mechanica</i> , 2016, 227, 955-968.	2.1	16
49	Generalized Thermoelastic Interactions in a Poroelastic Material Without Energy Dissipations. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	2.1	15
50	Dissipative-based non-fragile filtering for fuzzy networked control systems with switching communication channels. <i>Applied Mathematics and Computation</i> , 2020, 373, 125011.	2.2	15
51	Electroosmosis-modulated bioflow of nanofluid through a rectangular peristaltic pump induced by complex traveling wave with zeta potential and heat source. <i>Electrophoresis</i> , 2021, 42, 2143-2153.	2.4	15
52	Control of multi-scroll attractors in a memristor-coupled resonator via time-delayed feedback. <i>Modern Physics Letters B</i> , 2018, 32, 1850399.	1.9	14
53	Quantized Finite-Time Non-fragile Filtering for Singular Markovian Jump Systems with Intermittent Measurements. <i>Circuits, Systems, and Signal Processing</i> , 2019, 38, 3971-3995.	2.0	14
54	Boundary layer flow of a nanofluid past a horizontal flat plate in a Darcy porous medium: A Lie group approach. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 1545-1553.	2.1	14

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55	Heat and mass transfer analysis in the MHD flow of radiative Maxwell nanofluid with non-uniform heat source/sink. <i>Waves in Random and Complex Media</i> , 0, , 1-24.	2.7	14
56	Heat and Mass Transfer in a Viscous Nanofluid Containing a Gyrotactic Micro-Organism Over a Stretching Cylinder. <i>Symmetry</i> , 2019, 11, 1131.	2.2	13
57	Flow Analysis of Two-Layer Nano/Johnsonâ€™Segelman Fluid in a Blood Vessel-like Tube with Complex Peristaltic Wave. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-18.	1.1	13
58	Blowing-up solutions for a nonlinear time-fractional system. <i>Bulletin of Mathematical Sciences</i> , 2017, 7, 201-210.	0.7	12
59	A Two-Temperature Photothermal Interaction in a Semiconducting Material. <i>Journal of Advanced Physics</i> , 2017, 6, 402-407.	0.4	12
60	Global regularity for the 2D liquid crystal model with mixed partial viscosity. <i>Analysis and Applications</i> , 2015, 13, 185-200.	2.2	11
61	High-Efficiency Three-Party Quantum Key Agreement Protocol with Quantum Dense Coding and Bell States. <i>International Journal of Theoretical Physics</i> , 2019, 58, 2834-2846.	1.2	11
62	Transportation of nonlinear radiative heat flux in Al ₂ O ₃ â€™Cu/H ₂ O hybrid nanofluid subject to dissipation energy: Dual solutions analysis. <i>AIP Advances</i> , 2020, 10, .	1.3	11
63	The Effects of Variable Thermal Conductivity in Semiconductor Materials Photogenerated by a Focused Thermal Shock. <i>Mathematics</i> , 2020, 8, 1230.	2.2	11
64	Photo-thermoelastic interactions in a 2D semiconducting medium. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	10
65	An Infinite System of Fractional Order with p-Laplacian Operator in a Tempered Sequence Space via Measure of Noncompactness Technique. <i>Fractal and Fractional</i> , 2021, 5, 182.	3.3	10
66	Generalized photo-thermo-elastic interaction in a semiconductor plate with two relaxation times. <i>Thin-Walled Structures</i> , 2018, 129, 342-348.	5.3	9
67	Quantized guaranteed cost memory consensus for nonlinear multi-agent systems with switching topology and actuator faults. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 539, 122946.	2.6	9
68	Hyperentanglement concentration for polarizationâ€™spatialâ€™time-bin hyperentangled photon systems with linear optics. <i>Quantum Information Processing</i> , 2017, 16, 1.	2.2	8
69	The effect of fractional derivative on photo-thermoelastic interaction in an infinite semiconducting medium with a cylindrical hole. <i>Engineering Solid Mechanics</i> , 2018, , 275-284.	1.2	8
70	Sharp bounds for the Lambert W function. <i>Integral Transforms and Special Functions</i> , 2018, 29, 971-978.	1.2	8
71	Decentralized Fault-tolerant Resilient Control for Fractional-order Interconnected Systems with Input Saturation. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 2895-2905.	2.7	8
72	Finiteâ€™time boundedness of largeâ€™scale systems with actuator faults and gain fluctuations. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 3042-3062.	3.7	8

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73	Attainability to Solve Fractional Differential Inclusion on the Half Line at Resonance. Complexity, 2020, 2020, 1-13.	1.6	8
74	Stability theory of nano-fluid over an exponentially stretching cylindrical surface containing microorganisms. Scientific Reports, 2020, 10, 17004.	3.3	8
75	Fault-tolerant H_∞ filtering for fuzzy networked control systems with quantisation effects. International Journal of Systems Science, 2020, 51, 1149-1161.	5.5	8
76	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
77	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
78	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
79	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
80	Dynamics and Solutionsâ€™ Expressions of a Higher-Order Nonlinear Fractional Recursive Sequence. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	7
81	Electroosmotic impacts on hybrid antimicrobial blood stream through catheterized stenotic aneurysmal artery. European Physical Journal Plus, 2022, 137, .	2.6	7
82	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
83	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
84	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
85	Analytical solution of a two-dimensional thermoelastic problem subjected to laser pulse. Steel and Composite Structures, 2016, 21, 791-803.	1.3	6
86	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
87	Qualitative behavior and solution of a system of threeâ€™dimensional rational difference equations. Mathematical Methods in the Applied Sciences, 2022, 45, 5456-5470.	2.3	6
88	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
89	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
90	The Effect of a Hyperbolic Two-Temperature Model with and without Energy Dissipation in a Semiconductor Material. Mathematics, 2020, 8, 1711.	2.2	5

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91	PERIODICITY AND SOLUTIONS OF SOME RATIONAL DIFFERENCE EQUATIONS SYSTEMS. Journal of Applied Analysis and Computation, 2019, 9, 2358-2380.	0.5	5
92	Improvements of bounds for the q-gamma and the \$q\$-polygamma functions. Journal of Mathematical Inequalities, 2017, , 873-883.	0.9	5
93	Compact and Noncompact Solutions to Generalized Sturmâ€Liouville and Langevin Equation with Caputoâ€Hadamard Fractional Derivative. Mathematical Problems in Engineering, 2021, 2021, 1-15.	1.1	5
94	New fractional-order multivalued problems with nonlocal nonlinear flux type integral boundary conditions. Boundary Value Problems, 2015, 2015, .	0.7	4
95	Extraction of the index of refraction by embedding multiple small inclusions. Inverse Problems, 2016, 32, 045004.	2.0	4
96	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
97	Practical entanglement concentration of nonlocal polarization-spatial hyperentangled states with linear optics. Quantum Information Processing, 2017, 16, 1.	2.2	3
98	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
99	Analysis of Buongiornoâ€™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
100	Dynamics of a tethered satellite with variable mass. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 1035-1045.	1.1	3
101	Efficient Entanglement Concentration of Nonlocal Two-Photon Polarization-Time-Bin Hyperentangled States. International Journal of Theoretical Physics, 2018, 57, 664-673.	1.2	2
102	Dynamics of the nonlinear rational difference equation $\{x_{n+1}\} = \{A\{x_{n-\alpha}\}\{x_{n-\eta}\} + B\{x_{n-\gamma}\}\}$ over $\{C\{x_{n-\alpha}\}\{x_{n-\eta}\} + D\{x_{n-\gamma}\}\}$. Indian Journal of Pure and Applied Mathematics, 2019, 50, 385-401.	0.5	2
103	Robust H_∞ 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
104	A Study of Photo-Thermoelastic Wave in Semiconductor Materials with Spherical Holes Using Analytical-Numerical Methods. Silicon, 2022, 14, 4027-4033.	3.3	2
105	Dynamics and Behaviour of Some Rational Systems of Difference Equations. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8583-8599.	0.4	2
106	Complete Monotonicity property for two functions related to the q-digamma function. Journal of Mathematical Inequalities, 2019, , 37-52.	0.9	2
107	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
108	Physical impact of double stratification in Darcyâ€Forchheimer hybrid nanofluid $(Al_{2}O_{3}/Cu-H_{2}O)$ subject to Arrhenius pre-exponential factor law and entropy generation. Waves in Random and Complex Media, 0, , 1-22.	2.7	2

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109	One-step entanglements generation on distant superconducting resonators in the dispersive regime. Quantum Information Processing, 2018, 17, 1.	2.2	1
110	The Effect of Mechanical Load-induced Intraosseous Pressure Gradients on Bone Remodeling. Advanced Structured Materials, 2019, , 29-49.	0.5	1
111	Addendum: Salem, A. et al. Fractional Langevin Equations with Nonlocal Integral Boundary Conditions. Mathematics 2019, 7, 402. Mathematics, 2019, 7, 1030.	2.2	1
112	Dual solution of boundary-layer flow driven by variable plate and streaming-free velocity. Advances in Mechanical Engineering, 2020, 12, 168781402093084.	1.6	1
113	Characterization of thermal-dependent conductivity in Cattaneoâ€‘Christov (CC)-based buoyancy-driven incompressible flow. Applied Nanoscience (Switzerland), 2020, 10, 5441-5447.	3.1	1
114	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
115	Twoâ€‘dimensional thin layer convective flow with heat transfer from magnetoâ€‘hydrodynamic uniform free convection flow driven by nonlinear stretching surface. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000103.	1.6	1
116	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
117	Periodicities and Global Behaviour of Difference Equation of Order Eight. Journal of Computational and Theoretical Nanoscience, 2016, 13, 4932-4940.	0.4	1
118	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
119	Significance of heat conduction in binary reactive flow of Walterâ€™s B fluid with radiative flux and activation energy. Modern Physics Letters B, 2021, 35, .	1.9	1
120	Melting aspects in flow of second grade nanomaterial with homogeneousâ€‘heterogeneous reactions and irreversibility phenomenon: A residual error analysis. Progress in Reaction Kinetics and Mechanism, 2022, 47, 146867832210903.	2.1	1
121	A regularity criterion for the Cahn-Hilliard-Boussinesq system with zero viscosity. Journal of Inequalities and Applications, 2014, 2014, .	1.1	0
122	Analytical Solution of Magneto-Thermoelastic Diffusion Problem on a Hollow Cylinder. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4747-4754.	0.4	0
123	Nonlocal boundary value problems for impulsive fractional q_k -difference equations. Advances in Difference Equations, 2016, 2016, .	3.5	0
124	Two-Sided Inequality Involving the q-Gamma Function. International Journal of Applied and Computational Mathematics, 2018, 4, 1.	1.6	0
125	$Al_{2 \times 3} \in \mathbb{N}$ and $Al_{2 \times 3} \in \mathbb{N}$ characterizations of nonlinear differential equations for biomedical applications: Magnetized peristaltic transport. Numerical Methods for Partial Differential Equations, 2023, 39, 827-847.	3.6	0
126	A Diffusion Model for Stimulus Propagation in Remodeling Bone Tissues. Advanced Structured Materials, 2019, , 69-94.	0.5	0

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127	Synchronization of decentralized event-triggered uncertain switched neural networks with two additive time-varying delays. <i>Nonlinear Analysis: Modelling and Control</i> , 2020, 25, .	1.6	0
128	Eigenvalues approach on thermo-elastic diffusions problem for an infinite material containing spherical holes. <i>Waves in Random and Complex Media</i> , 0, , 1-13.	2.7	0
129	Transportation of melting heat transport in bio-convective Pseudoplastic nanoparticles flow over bidirectional stretched Riga device. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	0
130	Thermophoretic particle diffusion effect in Darcy-Forchheimer Marangoni convective flow of Al_2O_3 nanoparticles by a stretchable surface. <i>Waves in Random and Complex Media</i> , 0, , 1-18.	2.7	0