

Aatef D Hobiny

List of Publications by Year in descending order

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75
papers

1,589
citations

411340

20
h-index

388640

36
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75
all docs

75
docs citations

75
times ranked

814
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.	1.6	7
2	$Al_{2}O_{3}$ and $Al_{2}O_{3}$ characterizations of nonlinear differential equations for biomedical applications: Magnetized peristaltic transport. Numerical Methods for Partial Differential Equations, 2023, 39, 827-847.	2.0	0
3	The Influences of the Hyperbolic Two-Temperatures Theory on Waves Propagation in a Semiconductor Material Containing Spherical Cavity. Mathematics, 2022, 10, 121.	1.1	8
4	Influence of Fear Effect on Bifurcation Dynamics of Predator-prey System in a Predator-poisoned Environment. Qualitative Theory of Dynamical Systems, 2022, 21, 1.	0.8	2
5	The impacts of variable thermal conductivity in a semiconducting medium using finite element method. Case Studies in Thermal Engineering, 2022, 31, 101773.	2.8	10
6	Hopf bifurcation induced by time delay and influence of Allee effect in a diffusive predator-prey system with herd behavior and prey chemotaxis. Nonlinear Dynamics, 2022, 108, 4581-4598.	2.7	5
7	Analytical Solutions of Nonlocal Thermoelastic Interaction on Semi-Infinite Mediums Induced by Ramp-Type Heating. Symmetry, 2022, 14, 864.	1.1	2
8	Analysis of Thermoelastic Interaction in a Polymeric Orthotropic Medium Using the Finite Element Method. Polymers, 2022, 14, 2112.	2.0	4
9	Global Stability of a Humoral Immunity COVID-19 Model with Logistic Growth and Delays. Mathematics, 2022, 10, 1857.	1.1	17
10	Generalized Thermoelastic Interaction in a Half-Space under a Nonlocal Thermoelastic Model. Mathematics, 2022, 10, 2168.	1.1	5
11	Thermoelastic Analysis in Poro-Elastic Materials Using a TPL Model. Applied Sciences (Switzerland), 2022, 12, 5914.	1.3	2
12	Analytical solutions of fractional bioheat model in a spherical tissue. Mechanics Based Design of Structures and Machines, 2021, 49, 430-439.	3.4	60
13	On the effects of chemical reaction on controlled heat and mass transfer in magnetized non-Newtonian biofluid through a long rectangular tunnel. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2637-2646.	2.0	9
14	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.	0.8	3
15	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.	3.4	6
16	Finite Element Analysis of Nonlinear Bioheat Model in Skin Tissue Due to External Thermal Sources. Mathematics, 2021, 9, 1459.	1.1	29
17	The Effects of Fractional Time Derivatives in Poro-thermoelastic Materials Using Finite Element Method. Mathematics, 2021, 9, 1606.	1.1	50
18	Insight into the Dynamics of Oldroyd-B Fluid Over an Upper Horizontal Surface of a Paraboloid of Revolution Subject to Chemical Reaction Dependent on the First-Order Activation Energy. Arabian Journal for Science and Engineering, 2021, 46, 6039-6048.	1.7	35

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19	Finite Element Analysis of Thermal-Diffusions Problem for Unbounded Elastic Medium Containing Spherical Cavity under DPL Model. <i>Mathematics</i> , 2021, 9, 2782.	1.1	2
20	An analytical solution of the bioheat model in a spherical tissue due to laser irradiation. <i>Indian Journal of Physics</i> , 2020, 94, 1329-1334.	0.9	13
21	Impact of B-cell impairment on virus dynamics with time delay and two modes of transmission. <i>Chaos, Solitons and Fractals</i> , 2020, 130, 109455.	2.5	3
22	Fractional Order GN Model on Photo-Thermal Interaction in a Semiconductor Plane. <i>Silicon</i> , 2020, 12, 1957-1964.	1.8	23
23	Mode transition in a memristive dynamical system and its application in image encryption. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050244.	1.0	7
24	The thermomechanical response of a poroelastic medium with two thermal relaxation times. <i>Multidiscipline Modeling in Materials and Structures</i> , 2020, 17, 493-506.	0.6	3
25	Analytical Estimation of Temperature in Living Tissues Using the TPL Bioheat Model with Experimental Verification. <i>Mathematics</i> , 2020, 8, 1188.	1.1	21
26	Three-phase lag model of thermo-elastic interaction in a 2D porous material due to pulse heat flux. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 5191-5207.	1.6	7
27	Photo-thermal interactions in a semi-conductor material with cylindrical cavities and variable thermal conductivity. <i>Journal of Taibah University for Science</i> , 2020, 14, 1369-1376.	1.1	74
28	Transportation of nonlinear radiative heat flux in Al ₂ O ₃ -Cu/H ₂ O hybrid nanofluid subject to dissipation energy: Dual solutions analysis. <i>AIP Advances</i> , 2020, 10, .	0.6	11
29	Characterization of thermal-dependent conductivity in Cattaneo-Christov (CC)-based buoyancy-driven incompressible flow. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5441-5447.	1.6	1
30	Analysis of Arrhenius Kinetics on Multiphase Flow between a Pair of Rotating Circular Plates. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-17.	0.6	54
31	Effects of porosity and thermal relaxation time in a poro-thermoelastic material by hybrid finite element method. <i>Mechanics Based Design of Structures and Machines</i> , 2020, , 1-15.	3.4	6
32	Effect of the hyperbolic two-temperature model without energy dissipation on photo-thermal interaction in a semi-conducting medium. <i>Results in Physics</i> , 2020, 18, 103167.	2.0	17
33	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.	2.6	81
34	An Eigenvalues Approach for a Two-Dimensional Porous Medium Based Upon Weak, Normal and Strong Thermal Conductivities. <i>Symmetry</i> , 2020, 12, 848.	1.1	107
35	Nonlinear analysis of dual-phase lag bio-heat model in living tissues induced by laser irradiation. <i>Journal of Thermal Stresses</i> , 2020, 43, 503-511.	1.1	31
36	The Effect of Fractional Time Derivative of Bioheat Model in Skin Tissue Induced to Laser Irradiation. <i>Symmetry</i> , 2020, 12, 602.	1.1	95

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37	A new photosensitive neuron model and its dynamics. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 1387-1396.	1.5	84
38	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.	0.5	11
39	A GN model on photothermal interactions in a two-dimensions semiconductor half space. <i>Results in Physics</i> , 2019, 15, 102588.	2.0	84
40	Global Properties of a Delay-Distributed HIV Dynamics Model Including Impairment of B-Cell Functions. <i>Mathematics</i> , 2019, 7, 837.	1.1	35
41	Differential coupling contributes to synchronization via a capacitor connection between chaotic circuits. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 571-583.	1.5	51
42	Thermal response of cylindrical tissue induced by laser irradiation with experimental study. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 4013-4023.	1.6	17
43	Global properties of virus dynamics with B-cell impairment. <i>Open Mathematics</i> , 2019, 17, 1435-1449.	0.5	1
44	Theoretical analysis of thermal damages in skin tissue induced by intense moving heat source. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 1011-1014.	2.5	90
45	A DPL model of photo-thermal interaction in an infinite semiconductor material containing a spherical hole. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	14
46	Optimal Synthesis of the Joint Unitary Evolutions. <i>International Journal of Theoretical Physics</i> , 2018, 57, 1942-1947.	0.5	1
47	The influence of thermal and conductive temperatures in a nanoscale resonator. <i>Results in Physics</i> , 2018, 9, 705-711.	2.0	3
48	Photo-thermal-elastic interaction in an unbounded semiconducting medium with spherical cavity due to pulse heat flux. <i>Waves in Random and Complex Media</i> , 2018, 28, 670-682.	1.6	17
49	A Two-Temperature Photothermal Interaction in a Semiconductor Medium Containing a Cylindrical Hole. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	3
50	Efficient Entanglement Concentration of Nonlocal Two-Photon Polarization-Time-Bin Hyperentangled States. <i>International Journal of Theoretical Physics</i> , 2018, 57, 664-673.	0.5	2
51	One-step entanglements generation on distant superconducting resonators in the dispersive regime. <i>Quantum Information Processing</i> , 2018, 17, 1.	1.0	1
52	Analytical solutions of photo-thermo-elastic waves in a non-homogenous semiconducting material. <i>Results in Physics</i> , 2018, 10, 385-390.	2.0	60
53	Fractional order photo-thermo-elastic waves in a two-dimensional semiconductor plate. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	8
54	A study on photothermal waves in an unbounded semiconductor medium with cylindrical cavity. <i>Mechanics of Time-Dependent Materials</i> , 2017, 21, 61-72.	2.3	56

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55	Practical entanglement concentration of nonlocal polarization-spatial hyperentangled states with linear optics. Quantum Information Processing, 2017, 16, 1.	1.0	3
56	On the libration collinear points in the restricted three " body problem. Open Physics, 2017, 15, 58-67.	0.8	34
57	Periodic orbits of the generalized Friedmann-Robertson-Walker potential in galactic dynamics in a rotating reference frame. AIP Advances, 2017, 7, 035021.	0.6	4
58	Hyperentanglement concentration for polarization"spatial" time-bin hyperentangled photon systems with linear optics. Quantum Information Processing, 2017, 16, 1.	1.0	8
59	Self-error-rejecting photonic qubit transmission in polarization-spatial modes with linear optical elements. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	18
60	High-capacity quantum secure direct communication with two-photon six-qubit hyperentangled states. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	90
61	Formation of Autapse Connected to Neuron and Its Biological Function. Complexity, 2017, 2017, 1-9.	0.9	47
62	Analytical solution of magnetothermoelastic interaction in a fiber-reinforced anisotropic material. European Physical Journal Plus, 2016, 131, 1.	1.2	9
63	Fractional-Order Generalized Thermoelastic Interaction in an Unbounded Media by Pulsed Laser Heating. Journal of Molecular and Engineering Materials, 2016, 04, 1650002.	0.9	0
64	On the convergence of the quadratic method. IMA Journal of Numerical Analysis, 2016, 36, 1310-1333.	1.5	2
65	The Rational Recursive Sequence $y_{n+1} = (\hat{1} \pm y_n \hat{n}^t) / (\hat{1}^3 y_n \hat{n}^k + \hat{1}^2 y_n)$. Journal of Computational and Theoretical Nanoscience, 2016, 13, 4439-4446.	0.4	0
66	Similarity solution for flow over an unsteady nonlinearly stretching rotating disk. AIP Advances, 2015, 5, 047113.	0.6	3
67	Free vibration of a thermoelastic hollow cylinder with one relaxation time. Canadian Journal of Physics, 2015, 93, 1082-1087.	0.4	6
68	On the quality of complementary bounds for eigenvalues. Calcolo, 2015, 52, 577-601.	0.6	1
69	A Half-Space Problem in the Fractional Order Theory of Thermoelastic Diffusion. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4803-4808.	0.4	0
70	Generalized thermoelastic interaction in a two-dimensional orthotropic material caused by a pulse heat flux. Waves in Random and Complex Media, 0, , 1-18.	1.6	3
71	A study on thermoelastic interactions in fiber-reinforced mediums containing spherical cavities. Waves in Random and Complex Media, 0, , 1-12.	1.6	3
72	A GL photo-thermal theory upon new hyperbolic two-temperatures in a semiconductor material. Waves in Random and Complex Media, 0, , 1-14.	1.6	1

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73	Bifurcation dynamics of a reaction–diffusion predator–prey model with fear effect in a predator–poisoned environment. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	5
74	The effect of variable thermal conductivity in a semi-conductor material using implicit finite difference approach. <i>Waves in Random and Complex Media</i> , 0, , 1-13.	1.6	1
75	Entropy generation analysis for the radiative flow of Sisko nanofluid with heat sink/source. <i>Waves in Random and Complex Media</i> , 0, , 1-17.	1.6	3