Amr M S Mahdy

List of Publications by Year in Descending Order

32 papers	382 citations	15 h-index	18 g-index
39 ext. papers	664 ext. citations	2.8 avg, IF	4.98 L-index

#	Paper	IF	Citations
32	Thermo-optical-mechanical excited waves of functionally graded semiconductor material with hyperbolic two-temperature. *European Physical Journal Plus*, **2022**, 137, 1	3.1	0
31	Use of optimal control in studying the dynamical behaviors of fractional financial awareness models. *Soft Computing*, **2022**, 26, 3401	3.5	4
30	Optimal Control and Spectral Collocation Method for Solving Smoking Models. *Intelligent Automation and Soft Computing*, **2022**, 31, 899-915	2.6	3
29	Photo-thermal-elastic waves of excitation microstretch semiconductor medium under the impact of rotation and initial stress. *Optical and Quantum Electronics*, **2022**, 54, 1	2.4	0
28	Numerical solution and dynamical behaviors for solving fractional nonlinear Rubella ailment disease model. *Results in Physics*, **2021**, 24, 104091	3.7	5
27	Effect of rotation and magnetic field on a numerical-refined heat conduction in a semiconductor medium during photo-excitation processes. *European Physical Journal Plus*, **2021**, 136, 1	3.1	9
26	Variable thermal conductivity and hyperbolic two-temperature theory during magneto-photothermal theory of semiconductor induced by laser pulses. *European Physical Journal Plus*, **2021**, 136, 1	3.1	15
25	Numerical solution technique for solving isoperimetric variational problems. *International Journal of Modern Physics C*, **2021**, 32, 2150002	1.1	14
24	Numerical solutions for solving model time-fractional Fokker–Planck equation. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 1120-1135	2.5	17
23	Dynamical Behaviors of Nonlinear Coronavirus (COVID 9) Model with Numerical Studies. *Computers, Materials and Continua*, **2021**, 67, 675-686	3.9	8
22	Algebraic computational methods for solving three nonlinear vital models fractional in mathematical physics. *Open Physics*, **2021**, 19, 152-169	1.3	1
21	Absorption illumination of a 2D rotator semi-infinite thermoelastic medium using a modified Green and Lindsay model. *Case Studies in Thermal Engineering*, **2021**, 26, 101165	5.6	4
20	Optimal and Memristor-Based Control of A Nonlinear Fractional Tumor-Immune Model. *Computers, Materials and Continua*, **2021**, 67, 3463-3486	3.9	5
19	Numerical, Approximate Solutions, and Optimal Control on the Deathly Lassa Hemorrhagic Fever Disease in Pregnant Women. *Journal of Function Spaces*, **2021**, 2021, 1-15	0.8	2
18	General fractional financial models of awareness with Caputo–Fabrizio derivative. *Advances in Mechanical Engineering*, **2020**, 12, 168781402097552	1.2	7
17	Thermal-piezoelectric problem of a semiconductor medium during photo-thermal excitation. *Waves in Random and Complex Media*, **2020**, 1-15	1.9	19
16	Electromagnetic Hall current effect and fractional heat order for microtemperature photo-excited semiconductor medium with laser pulses. *Results in Physics*, **2020**, 17, 103161	3.7	18

15	Dynamical Characteristics and Signal Flow Graph of Nonlinear Fractional Smoking Mathematical Model. *Chaos, Solitons and Fractals*, **2020**, 141, 110308	9.3	17
14	Analytical solutions of time-fractional heat order for a magneto-photothermal semiconductor medium with Thomson effects and initial stress. *Results in Physics*, **2020**, 18, 103174	3.7	17
13	Optimal control and bifurcation diagram for a model nonlinear fractional SIRC. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 3481-3501	6.1	20
12	Approximate solution for solving nonlinear fractional order smoking model. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 739-752	6.1	38
11	Numerical Different Methods for Solving the Nonlinear Biochemical Reaction Model. *International Journal of Applied and Computational Mathematics*, **2019**, 5, 1	1.3	17
10	Reduced Differential Transform Method for Solving Nonlinear Biomathematics Models. *Computers, Materials and Continua*, **2019**, 61, 979-994	3.9	15
9	Numerical studies for solving fractional integro-differential equations. *Journal of Ocean Engineering and Science*, **2018**, 3, 127-132	4.4	27
8	Second Kind Shifted Chebyshev Polynomials for Solving the Model Nonlinear ODEs. *American Journal of Computational Mathematics*, **2017**, 07, 391-401	0.8	4
7	Two computational algorithms for the numerical solution for system of fractional differential equations. *Arab Journal of Mathematical Sciences*, **2015**, 21, 39-52	0.5	15
6	Variational homotopy perturbation method for solving the generalized time-space fractional Schrdinger equation. *International Journal of Physical Sciences*, **2015**, 10, 342-350	0.3	3
5	Implementation of the Homotopy Perturbation Sumudu Transform Method for Solving Klein-Gordon Equation. *Applied Mathematics*, **2015**, 06, 617-628	0.4	16
4	Numerical Simulation for the Fractional SIRC Model and Influenza A. *Applied Mathematics and Information Sciences*, **2014**, 8, 1029-1036	2.4	20
3	Numerical Study for the Fractional Differential Equations Generated by Optimization Problem Using Chebyshev Collocation Method and FDM. *Applied Mathematics and Information Sciences*, **2013**, 7, 2011-2018	2.4	35
2	Influence of variable thermal conductivity on wave propagation for a ramp-type heating semiconductor magneto-rotator hydrostatic stresses medium during photo-excited microtemperature processes. *Waves in Random and Complex Media*,1-23	1.9	0
1	Thermal conductivity changes of photo-elastic semiconductor excited in gravitational field with hydrostatic initial stress and internal heat source. *Waves in Random and Complex Media*,1-20	1.9	