

Emad E Mahmoud

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

1,735
citations

21
h-index

38
g-index

104
ext. papers

2,028
ext. citations

3.7
avg, IF

5.83
L-index

#	Paper	IF	Citations
98	An Efficient Energy Management Routing and Scalable Topology in Wireless Sensor Network Using Virtual Backbone. <i>Wireless Communications and Mobile Computing</i> , 2022 , 2022, 1-10	1.9	
97	Bayesian Estimation of Different Scale Parameters Using a LINEX Loss Function.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 4822212	3	0
96	Applications of Prabhakar-like Fractional Derivative for the Solution of Viscous Type Fluid with Newtonian Heating Effect. <i>Fractal and Fractional</i> , 2022 , 6, 265	3	1
95	Effects of Energy Dissipation and Deformation Function on the Entanglement, Photon Statistics and Quantum Fisher Information of Three-Level Atom in Photon-Added Coherent States for Morse Potential. <i>Symmetry</i> , 2021 , 13, 2188	2.7	1
94	Investigation of shape effects of Cu-nanoparticle on heat transfer of MHD rotating flow over nonlinear stretching sheet. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 61, 4457-4457	6.1	3
93	Quaternion anti-synchronization of a novel realizable fractional chaotic model. <i>Chaos, Solitons and Fractals</i> , 2021 , 144, 110715	9.3	4
92	An efficient approach for fractional nonlinear chaotic model with Mittag-Leffler law. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101347	3.6	6
91	Numerical solution of two-dimensional fractional order Volterra integro-differential equations. <i>AIP Advances</i> , 2021 , 11, 035232	1.5	2
90	Sensitivity analysis and optimal control of COVID-19 dynamics based on model. <i>Results in Physics</i> , 2021 , 22, 103956	3.7	9
89	Numerical study of fractional order COVID-19 pandemic transmission model in context of ABO blood group. <i>Results in Physics</i> , 2021 , 22, 103852	3.7	11
88	Bernstein basis functions based algorithm for solving system of third order initial value problems. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 2395-2404	6.1	1
87	Impact of pangolin bootleg market on the dynamics of COVID-19 model. <i>Results in Physics</i> , 2021 , 23, 103913	3.7	0
86	Numerical solution of 2D-fuzzy Fredholm integral equations using optimal homotopy asymptotic method. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 2483-2490	6.1	2
85	Fractional order biological snap oscillator: Analysis and control. <i>Chaos, Solitons and Fractals</i> , 2021 , 145, 110763	9.3	4
84	Evaluating the efficiency of pin fin micro-heat sink considering different shapes of nanoparticle based on exergy analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1623-1632	4.1	2
83	Numerical simulation and exergy analysis of a novel nanofluid-cooled heat sink. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1651-1660	4.1	4
82	Chaos control and Penta-compound combination anti-synchronization on a novel fractional chaotic system with analysis and application. <i>Results in Physics</i> , 2021 , 24, 104130	3.7	5

81	Solution of third order linear and nonlinear boundary value problems of integro-differential equations using Haar Wavelet method. <i>Results in Physics</i> , 2021 , 25, 104176	3.7	4
80	Hybrid price and stock dependent inventory model for perishable goods with advance payment related discount facilities under preservation technology. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 3455-3465	6.1	15
79	Haar wavelets multi-resolution collocation procedures for two-dimensional nonlinear Schrödinger equation. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 3057-3071	6.1	8
78	Fractional chaotic cryptovirology in blockchain - analysis and control. <i>Chaos, Solitons and Fractals</i> , 2021 , 148, 110989	9.3	0
77	Problem of p- and SV-waves reflection and transmission during two media under three thermoelastic theories and electromagnetic field with and without gravity. <i>Waves in Random and Complex Media</i> , 2021 , 31, 1-24	1.9	8
76	A production inventory model with partial trade credit policy and reliability. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 1325-1338	6.1	12
75	Control and synchronization of the hyperchaotic attractor for a 5-D self-exciting homopolar disc dynamo. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 1173-1181	6.1	1
74	On the dissipativity property of negative imaginary systems. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 1403-1410	6.1	1
73	Accurate spectral algorithm for two-dimensional variable-order fractional percolation equations. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 6228-6238	2.3	0
72	Analysis and control of a fractional chaotic tumour growth and decay model. <i>Results in Physics</i> , 2021 , 20, 103677	3.7	4
71	Mathematical Modeling on Rotational Magneto-Thermoelastic Phenomenon under Gravity and Laser Pulse considering Four Theories. <i>Complexity</i> , 2021 , 2021, 1-15	1.6	1
70	Analysis and control of the fractional chaotic Hopfield neural network. <i>Advances in Difference Equations</i> , 2021 , 2021,	3.6	2
69	Chaos control and analysis of fractional order neural network under electromagnetic radiation. <i>Results in Physics</i> , 2021 , 21, 103786	3.7	7
68	Mathematical analysis of COVID-19 via new mathematical model. <i>Chaos, Solitons and Fractals</i> , 2021 , 143, 110585	9.3	20
67	Optical solitons in birefringent fibers with quadratic-cubic nonlinearity using three integration architectures. <i>AIP Advances</i> , 2021 , 11, 025121	1.5	14
66	Dynamics and Robust Control of a New Realizable Chaotic Nonlinear Model. <i>Complexity</i> , 2021 , 2021, 1-17	1.6	2
65	Theoretical and numerical analysis of novel COVID-19 via fractional order mathematical model. <i>Results in Physics</i> , 2021 , 20, 103676	3.7	9
64	Entropy Optimized Second Grade Fluid with MHD and Marangoni Convection Impacts: An Intelligent Neuro-Computing Paradigm. <i>Coatings</i> , 2021 , 11, 1492	2.9	9

63	Circular Intensely Orthogonal Double Cover Design of Balanced Complete Multipartite Graphs. <i>Symmetry</i> , 2020 , 12, 1743	2.7	3
62	A Novel Strategy for Complete and Phase Robust Synchronizations of Chaotic Nonlinear Systems. <i>Symmetry</i> , 2020 , 12, 1765	2.7	8
61	Secure communication and synchronizations in light of the stability theory of the hyperchaotic complex nonlinear systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 2569-2583	1.6	1
60	Secure communications via complex phase synchronization of pair complex chaotic structures with a similar structure of linear terms with modifying in nonlinear terms. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 1107-1116	6.1	2
59	Quaternion nonlinear L \square model and its novel quaternion complete synchronization. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 1391-1403	6.1	3
58	Complex modified projective phase synchronization of nonlinear chaotic frameworks with complex variables. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 1265-1273	6.1	3
57	Product Replacement Policy in a Production Inventory Model with Replacement Period-, Stock-, and Price-Dependent Demand. <i>Journal of Mathematics</i> , 2020 , 2020, 1-8	1.2	6
56	A powerful numerical technique for treating twelfth-order boundary value problems. <i>Open Physics</i> , 2020 , 18, 1048-1062	1.3	1
55	Signal flow graph and control of realizable autonomous nonlinear Chen model with quaternion variables. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 1287-1305	6.1	6
54	Specialized study to perform complex phase synchronization of two chaotic complex systems including a similar structure of direct terms with modifying in nonlinear terms. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 1516-1529	2.3	1
53	Dynamical analysis and chaos control of the fractional chaotic ecological model. <i>Chaos, Solitons and Fractals</i> , 2020 , 141, 110348	9.3	10
52	A numerical study on fractional differential equation with population growth model. <i>Numerical Methods for Partial Differential Equations</i> , 2020 ,	2.5	5
51	Meshless Analysis of Nonlocal Boundary Value Problems in Anisotropic and Inhomogeneous Media. <i>Mathematics</i> , 2020 , 8, 2045	2.3	7
50	Anti-synchronized quad-compound combination among parallel systems of fractional chaotic system with application. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 4183-4200	6.1	12
49	Third-Order Neutral Delay Differential Equations: New Iterative Criteria for Oscillation. <i>Journal of Function Spaces</i> , 2020 , 2020, 1-8	0.8	2
48	A Grey Wolf-Based Method for Mammographic Mass Classification. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8422	2.6	3
47	A hyperchaotic detuned laser model with an infinite number of equilibria existing on a plane and its modified complex phase synchronization with time lag. <i>Chaos, Solitons and Fractals</i> , 2020 , 130, 109442	9.3	12
46	A new memristive model with complex variables and its generalized complex synchronizations with time lag. <i>Results in Physics</i> , 2019 , 15, 102619	3.7	2

45	A New Nine-Dimensional Chaotic Lorenz System with Quaternion Variables: Complicated Dynamics, Electronic Circuit Design, Anti-Anticipating Synchronization, and Chaotic Masking Communication Application. <i>Mathematics</i> , 2019 , 7, 877	2.3	17
44	A general formula of complex synchronizations with complex scaling diagonal matrix and time lag. <i>Results in Physics</i> , 2019 , 12, 603-614	3.7	2
43	Secure communications via modified complex phase synchronization of two hyperchaotic complex models with identical linear structure and adjusting in nonlinear terms. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 17-25	1.6	7
42	Complex anti-synchronization of two indistinguishable chaotic complex nonlinear models. <i>Measurement and Control</i> , 2019 , 52, 922-928	1.5	6
41	A phenomenal form of complex synchronization and chaotic masking communication between two identical chaotic complex nonlinear structures with unknown parameters. <i>Results in Physics</i> , 2019 , 14, 102452	3.7	8
40	Synchronization of time delay systems with non-diagonal complex scaling functions. <i>Chaos, Solitons and Fractals</i> , 2018 , 111, 86-95	9.3	9
39	Dynamical properties and complex anti synchronization with applications to secure communications for a novel chaotic complex nonlinear model. <i>Chaos, Solitons and Fractals</i> , 2018 , 106, 273-284	9.3	29
38	On Phase and Anti-Phase Combination Synchronization of Time Delay Nonlinear Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018 , 13,	1.4	2
37	High dimensional, four positive Lyapunov exponents and attractors with four scroll during a new hyperchaotic complex nonlinear model. <i>AIP Advances</i> , 2018 , 8, 065018	1.5	11
36	Projective synchronization for coupled partially linear complex-variable systems with known parameters. <i>Mathematical Methods in the Applied Sciences</i> , 2017 , 40, 1214-1222	2.3	25
35	Dynamical behaviors, control and synchronization of a new chaotic model with complex variables and cubic nonlinear terms. <i>Results in Physics</i> , 2017 , 7, 1346-1356	3.7	21
34	Chaos control of integer and fractional orders of chaotic BurkeBhaw system using time delayed feedback control. <i>Chaos, Solitons and Fractals</i> , 2017 , 104, 680-692	9.3	38
33	A New Nonlinear Chaotic Complex Model and Its Complex Antilag Synchronization. <i>Complexity</i> , 2017 , 2017, 1-13	1.6	15
32	A novel sort of adaptive complex synchronizations of two indistinguishable chaotic complex nonlinear models with uncertain parameters and its applications in secure communications. <i>Results in Physics</i> , 2017 , 7, 4174-4182	3.7	11
31	An unusual kind of complex synchronizations and its applications in secure communications. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	15
30	Bifurcations and chaos of time delay Lorenz system with dimension $2n+1$. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	9
29	On modified time delay hyperchaotic complex LLsystem. <i>Nonlinear Dynamics</i> , 2015 , 80, 855-869	5	22
28	Complex lag synchronization of two identical chaotic complex nonlinear systems. <i>Open Physics</i> , 2014 , 12,	1.3	4

27	Generation and suppression of a new hyperchaotic nonlinear model with complex variables. <i>Applied Mathematical Modelling</i> , 2014 , 38, 4445-4459	4.5	12
26	Analytical and Numerical Study of the Projective Synchronization of the Chaotic Complex Nonlinear Systems with Uncertain Parameters and Its Applications in Secure Communication. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-10	1.1	12
25	Complex complete synchronization of two nonidentical hyperchaotic complex nonlinear systems. <i>Mathematical Methods in the Applied Sciences</i> , 2014 , 37, 321-328	2.3	52
24	Complex modified projective synchronization of two chaotic complex nonlinear systems. <i>Nonlinear Dynamics</i> , 2013 , 73, 2231-2240	5	54
23	Modified projective phase synchronization of chaotic complex nonlinear systems. <i>Mathematics and Computers in Simulation</i> , 2013 , 89, 69-85	3.3	35
22	On projective synchronization of hyperchaotic complex nonlinear systems based on passive theory for secure communications. <i>Physica Scripta</i> , 2013 , 87, 055002	2.6	48
21	Controlling hyperchaotic complex systems with unknown parameters based on adaptive passive method. <i>Chinese Physics B</i> , 2013 , 22, 060508	1.2	13
20	Passive control of n-dimensional chaotic complex nonlinear systems. <i>JVC/Journal of Vibration and Control</i> , 2013 , 19, 1061-1071	2	27
19	Anti-lag synchronisation of hyperchaotic complex non-linear systems. <i>International Journal of Computing Science and Mathematics</i> , 2013 , 4, 197	0.8	
18	Lag synchronization of hyperchaotic complex nonlinear systems via passive control. <i>Applied Mathematics and Information Sciences</i> , 2013 , 7, 1429-1436	2.4	19
17	Dynamics and synchronization of new hyperchaotic complex Lorenz system. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 1951-1962		69
16	Adaptive anti-lag synchronization of two identical or non-identical hyperchaotic complex nonlinear systems with uncertain parameters. <i>Journal of the Franklin Institute</i> , 2012 , 349, 1247-1266	4	57
15	Lag synchronization of hyperchaotic complex nonlinear systems. <i>Nonlinear Dynamics</i> , 2012 , 67, 1613-1622	3	76
14	MODIFIED PROJECTIVE LAG SYNCHRONIZATION OF TWO NONIDENTICAL HYPERCHAOTIC COMPLEX NONLINEAR SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011 , 21, 2369-2379	2	28
13	Phase and antiphase synchronization of two identical hyperchaotic complex nonlinear systems. <i>Nonlinear Dynamics</i> , 2010 , 61, 141-152	5	95
12	Complete synchronization of chaotic complex nonlinear systems with uncertain parameters. <i>Nonlinear Dynamics</i> , 2010 , 62, 875-882	5	155
11	Synchronization and control of hyperchaotic complex Lorenz system. <i>Mathematics and Computers in Simulation</i> , 2010 , 80, 2286-2296	3.3	67
10	Chaos synchronization of two different chaotic complex Chen and Lü systems. <i>Nonlinear Dynamics</i> , 2009 , 55, 43-53	5	59

9	On the hyperchaotic complex Lorenz system. <i>Nonlinear Dynamics</i> , 2009 , 58, 725-738	5	90
8	Chaotic synchronization of two complex nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , 2009 , 42, 2858-2864	3	10
7	ANALYSIS OF HYPERCHAOTIC COMPLEX LORENZ SYSTEMS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 1477-1494	1.1	75
6	ACTIVE CONTROL AND GLOBAL SYNCHRONIZATION OF THE COMPLEX CHEN AND LORENZ SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 4295-4308	2	149
5	Investigating the thermal efficiency and pressure drop of a nanofluid within a micro heat sink with a new circular design used to cool electronic equipment. <i>Chemical Engineering Communications</i> , 1-13	2.2	5
4	Nanoparticles shape effect on the efficiency of microheat sinks with tightly packed pin-fins. <i>Chemical Engineering Communications</i> , 1-11	2.2	4
3	Numerical study of heat transfer and friction drag in MHD viscous flow of a nanofluid subject to the curved surface. <i>Waves in Random and Complex Media</i> , 1-16	1.9	3
2	A study of a computational BVP for heat transfer and friction drag in magnetohydrodynamics viscous flow of a nanofluid subject to the curved surface. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892110464	1.5	5
1	Numerical evaluation of the effect of nano-additive type on the second-law performance of $\text{Fe}_3\text{O}_4/\text{Al}_2\text{O}_3$ nano-fluid flow in a wavy microchannel. <i>Chemical Engineering Communications</i> , 1-13	2.2	3