

Emad E Mahmoud

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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	Complete synchronization of chaotic complex nonlinear systems with uncertain parameters. <i>Nonlinear Dynamics</i> , 2010 , 62, 875-882	5	155
97	ACTIVE CONTROL AND GLOBAL SYNCHRONIZATION OF THE COMPLEX CHEN AND LI SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 4295-4308	2	149
96	Phase and antiphase synchronization of two identical hyperchaotic complex nonlinear systems. <i>Nonlinear Dynamics</i> , 2010 , 61, 141-152	5	95
95	On the hyperchaotic complex Li system. <i>Nonlinear Dynamics</i> , 2009 , 58, 725-738	5	90
94	Lag synchronization of hyperchaotic complex nonlinear systems. <i>Nonlinear Dynamics</i> , 2012 , 67, 1613-1622	5	76
93	ANALYSIS OF HYPERCHAOTIC COMPLEX LORENZ SYSTEMS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 1477-1494	1.1	75
92	Dynamics and synchronization of new hyperchaotic complex Lorenz system. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 1951-1962	3.3	69
91	Synchronization and control of hyperchaotic complex Lorenz system. <i>Mathematics and Computers in Simulation</i> , 2010 , 80, 2286-2296	3.3	67
90	Chaos synchronization of two different chaotic complex Chen and Li systems. <i>Nonlinear Dynamics</i> , 2009 , 55, 43-53	5	59
89	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
88	Complex modified projective synchronization of two chaotic complex nonlinear systems. <i>Nonlinear Dynamics</i> , 2013 , 73, 2231-2240	5	54
87	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
86	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
85	Chaos control of integer and fractional orders of chaotic Burke-Shaw system using time delayed feedback control. <i>Chaos, Solitons and Fractals</i> , 2017 , 104, 680-692	9.3	38
84	Modified projective phase synchronization of chaotic complex nonlinear systems. <i>Mathematics and Computers in Simulation</i> , 2013 , 89, 69-85	3.3	35
83	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
82	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

81	Passive control of n-dimensional chaotic complex nonlinear systems. <i>JVC/Journal of Vibration and Control</i> , 2013 , 19, 1061-1071	2	27
80	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
79	On modified time delay hyperchaotic complex Lsystem. <i>Nonlinear Dynamics</i> , 2015 , 80, 855-869	5	22
78	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
77	Mathematical analysis of COVID-19 via new mathematical model. <i>Chaos, Solitons and Fractals</i> , 2021 , 143, 110585	9.3	20
76	Lag synchronization of hyperchaotic complex nonlinear systems via passive control. <i>Applied Mathematics and Information Sciences</i> , 2013 , 7, 1429-1436	2.4	19
75	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
74	A New Nonlinear Chaotic Complex Model and Its Complex Antilag Synchronization. <i>Complexity</i> , 2017 , 2017, 1-13	1.6	15
73	An unusual kind of complex synchronizations and its applications in secure communications. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	15
72	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
71	Optical solitons in birefringent fibers with quadratic-cubic nonlinearity using three integration architectures. <i>AIP Advances</i> , 2021 , 11, 025121	1.5	14
70	Controlling hyperchaotic complex systems with unknown parameters based on adaptive passive method. <i>Chinese Physics B</i> , 2013 , 22, 060508	1.2	13
69	Generation and suppression of a new hyperchaotic nonlinear model with complex variables. <i>Applied Mathematical Modelling</i> , 2014 , 38, 4445-4459	4.5	12
68	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
67	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
66	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
65	A production inventory model with partial trade credit policy and reliability. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 1325-1338	6.1	12
64	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

63	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
62	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
61	Chaotic synchronization of two complex nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , 2009 , 42, 2858-2864	3.10	10
60	Dynamical analysis and chaos control of the fractional chaotic ecological model. <i>Chaos, Solitons and Fractals</i> , 2020 , 141, 110348	9.3	10
59	Synchronization of time delay systems with non-diagonal complex scaling functions. <i>Chaos, Solitons and Fractals</i> , 2018 , 111, 86-95	9.3	9
58	Bifurcations and chaos of time delay Lorenz system with dimension $2n+1$. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	9
57	Sensitivity analysis and optimal control of COVID-19 dynamics based on model. <i>Results in Physics</i> , 2021 , 22, 103956	3.7	9
56	Theoretical and numerical analysis of novel COVID-19 via fractional order mathematical model. <i>Results in Physics</i> , 2021 , 20, 103676	3.7	9
55	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
54	A Novel Strategy for Complete and Phase Robust Synchronizations of Chaotic Nonlinear Systems. <i>Symmetry</i> , 2020 , 12, 1765	2.7	8
53	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
52	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
51	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
50	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
49	Meshless Analysis of Nonlocal Boundary Value Problems in Anisotropic and Inhomogeneous Media. <i>Mathematics</i> , 2020 , 8, 2045	2.3	7
48	Chaos control and analysis of fractional order neural network under electromagnetic radiation. <i>Results in Physics</i> , 2021 , 21, 103786	3.7	7
47	Complex anti-synchronization of two indistinguishable chaotic complex nonlinear models. <i>Measurement and Control</i> , 2019 , 52, 922-928	1.5	6
46	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

45	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
44	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
43	A numerical study on fractional differential equation with population growth model. <i>Numerical Methods for Partial Differential Equations</i> , 2020 ,	2.5	5
42	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
41	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
40	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
39	Complex lag synchronization of two identical chaotic complex nonlinear systems. <i>Open Physics</i> , 2014 , 12,	1.3	4
38	Quaternion anti-synchronization of a novel realizable fractional chaotic model. <i>Chaos, Solitons and Fractals</i> , 2021 , 144, 110715	9.3	4
37	Fractional order biological snap oscillator: Analysis and control. <i>Chaos, Solitons and Fractals</i> , 2021 , 145, 110763	9.3	4
36	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
35	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
34	Analysis and control of a fractional chaotic tumour growth and decay model. <i>Results in Physics</i> , 2021 , 20, 103677	3.7	4
33	Nanoparticles shape effect on the efficiency of microheat sinks with tightly packed pin-fins. <i>Chemical Engineering Communications</i> ,1-11	2.2	4
32	Circular Intensely Orthogonal Double Cover Design of Balanced Complete Multipartite Graphs. <i>Symmetry</i> , 2020 , 12, 1743	2.7	3
31	Quaternion nonlinear L $\bar{\mu}$ model and its novel quaternion complete synchronization. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 1391-1403	6.1	3
30	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
29	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
28	A Grey Wolf-Based Method for Mammographic Mass Classification. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8422	2.6	3

27	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
26	Numerical evaluation of the effect of nano-additive type on the second-law performance of Ba(OH)_2 nano-fluid flow in a wavy microchannel. <i>Chemical Engineering Communications</i> ,1-13	2.2	3
25	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
24	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
23	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
22	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
21	Third-Order Neutral Delay Differential Equations: New Iterative Criteria for Oscillation. <i>Journal of Function Spaces</i> , 2020 , 2020, 1-8	0.8	2
20	Numerical solution of two-dimensional fractional order Volterra integro-differential equations. <i>AIP Advances</i> , 2021 , 11, 035232	1.5	2
19	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
18	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
17	Analysis and control of the fractional chaotic Hopfield neural network. <i>Advances in Difference Equations</i> , 2021 , 2021,	3.6	2
16	Dynamics and Robust Control of a New Realizable Chaotic Nonlinear Model. <i>Complexity</i> , 2021 , 2021, 1-17	1.6	2
15	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
14	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
13	A powerful numerical technique for treating twelfth-order boundary value problems. <i>Open Physics</i> , 2020 , 18, 1048-1062	1.3	1
12	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
11	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
10	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

9	On the dissipativity property of negative imaginary systems. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 1403-1410	6.1	1
8	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
7	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
6	Impact of pangolin bootleg market on the dynamics of COVID-19 model. <i>Results in Physics</i> , 2021 , 23, 103913	3.7	0
5	Fractional chaotic cryptovirology in blockchain - analysis and control. <i>Chaos, Solitons and Fractals</i> , 2021 , 148, 110989	9.3	0
4	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
3	Bayesian Estimation of Different Scale Parameters Using a LINEX Loss Function.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 4822212	3	0
2	Anti-lag synchronisation of hyperchaotic complex non-linear systems. <i>International Journal of Computing Science and Mathematics</i> , 2013 , 4, 197	0.8	
1	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	