

# Karthikeyan Rajagopal

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2707936/publications.pdf>

Version: 2024-02-01

237  
papers

4,320  
citations

147566

31  
h-index

197535

49  
g-index

239  
all docs

239  
docs citations

239  
times ranked

1692  
citing authors

#	ARTICLE	IF	CITATIONS
1	Obstacle induced spiral waves in a multilayered Huber-Braun (HB) neuron model. Cognitive Neurodynamics, 2023, 17, 277-291.	2.3	3
2	A discrete Huber-Braun neuron model: from nodal properties to network performance. Cognitive Neurodynamics, 2023, 17, 301-310.	2.3	9
3	Role of WNT Agonists, BMP and VEGF Antagonists in Rescuing Osteoarthritic Knee Cartilage in a Rat Model. Indian Journal of Orthopaedics, 2022, 56, 24-33.	0.5	2
4	Multiple Hopf bifurcations, period-doubling reversals and coexisting attractors for a novel chaotic jerk system with Tchebychev polynomials. Physica A: Statistical Mechanics and Its Applications, 2022, 587, 126501.	1.2	7
5	Analysis, FPGA implementation of a Josephson junction circuit with topologically nontrivial barrier and its application to ring-based dual entropy core true random number generator. European Physical Journal: Special Topics, 2022, 231, 1049-1059.	1.2	5
6	Various bifurcations in the development of stem cells. European Physical Journal: Special Topics, 2022, 231, 1015-1021.	1.2	3
7	A Simple Image Encryption Based on Binary Image Affine Transformation and Zigzag Process. Complexity, 2022, 2022, 1-22.	0.9	4
8	Infinitely many coexisting hidden attractors in a new hyperbolic-type memristor-based HNN. European Physical Journal: Special Topics, 2022, 231, 2371-2385.	1.2	23
9	A chaotic system with equilibria located on a line and its fractional-order form. , 2022, , 35-62.		0
10	A New Memristive Neuron Map Model and Its Network's Dynamics under Electrochemical Coupling. Electronics (Switzerland), 2022, 11, 153.	1.8	30
11	Synchronization in Hindmarsh-Rose neurons subject to higher-order interactions. Chaos, 2022, 32, 013125.	1.0	61
12	Suppressing spiral waves with delayed asymmetric bidirectional coupling in a multi-layer biological network. European Physical Journal: Special Topics, 2022, 231, 921-927.	1.2	4
13	A simple one-dimensional map-based model of spiking neurons with wide ranges of firing rates and complexities. Journal of Theoretical Biology, 2022, 539, 111062.	0.8	3
14	Multistable dynamics and control of a new 4D memristive chaotic Sprott B system. Chaos, Solitons and Fractals, 2022, 156, 111834.	2.5	33
15	Chimera states in a network of identical oscillators with symmetric coexisting attractors. European Physical Journal: Special Topics, 2022, 231, 2163-2171.	1.2	4
16	Image encryption with a Josephson junction model embedded in FPGA. Multimedia Tools and Applications, 2022, 81, 23819-23843.	2.6	12
17	A Simple Conservative Chaotic Oscillator with Line of Equilibria: Bifurcation Plot, Basin Analysis, and Multistability. Complexity, 2022, 2022, 1-7.	0.9	4
18	A New Chaotic System with Coexisting Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	17

#	ARTICLE	IF	CITATIONS
19	A Novel Highly Nonlinear Quadratic System: Impulsive Stabilization, Complexity Analysis, and Circuit Designing. Complexity, 2022, 2022, 1-14.	0.9	4
20	Synchronization in a Multiplex Network of Nonidentical Fractional-Order Neurons. Fractal and Fractional, 2022, 6, 169.	1.6	10
21	Hamiltonian energy computation and complex behavior of a small heterogeneous network of three neurons: circuit implementation. Nonlinear Dynamics, 2022, 107, 2867-2886.	2.7	26
22	A revisit to the past plague epidemic (India) versus the present COVID-19 pandemic: fractional-order chaotic models and fuzzy logic control. European Physical Journal: Special Topics, 2022, 231, 905-919.	1.2	9
23	Strange nonchaotic attractor in memristor-based van der Pol oscillator. European Physical Journal: Special Topics, 2022, 231, 3143-3149.	1.2	6
24	Chaos in a memristive oscillator with six lines of equilibria. European Physical Journal: Special Topics, 2022, 231, 3059-3065.	1.2	2
25	Finite Difference Computation of Au-Cu/Magneto-Bio-Hybrid Nanofluid Flow in an Inclined Uneven Stenosis Artery. Complexity, 2022, 2022, 1-18.	0.9	25
26	Spiral waves and their characterization through spatioperiod and spatioenergy under distinct excitable media. Chaos, Solitons and Fractals, 2022, 158, 112105.	2.5	6
27	Hidden and Self-Excited Collective Dynamics of a New Multistable Hyper-Jerk System with Unique Equilibrium. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	7
28	A Three-Dimensional Autonomous System with a Parabolic Equilibrium: Dynamical Analysis, Adaptive Synchronization via Relay Coupling, and Applications to Steganography and Chaos Encryption. Complexity, 2022, 2022, 1-12.	0.9	1
29	Approximate symmetry memristive mega-stable oscillator with attractor growing and its Hamilton energy balance. European Physical Journal Plus, 2022, 137, .	1.2	4
30	Coupled van der Pol and Duffing oscillators: emergence of antimonotonicity and coexisting multiple self-excited and hidden oscillations. European Physical Journal Plus, 2022, 137, .	1.2	3
31	Strange nonchaotic dynamics in a discrete FitzHughâ€“Nagumo neuron model with sigmoidal recovery variable. Chaos, 2022, 32, 073106.	1.0	7
32	Early Addition of Parathyroid Hormoneâ€“Related Peptide Regulates the Hypertrophic Differentiation of Mesenchymal Stem Cells. Cartilage, 2021, 13, 143S-152S.	1.4	8
33	Coexisting attractors in a fractional order hydro turbine governing system and fuzzy PID based chaos control. Asian Journal of Control, 2021, 23, 894-907.	1.9	32
34	Magnetic induction can control the effect of external electrical stimuli on the spiral wave. Applied Mathematics and Computation, 2021, 390, 125608.	1.4	7
35	Spiral Waves in a Lattice Array of Josephson Junction Chaotic Oscillators with Flux Effects. Mathematical Problems in Engineering, 2021, 2021, 1-9.	0.6	6
36	Persistence and coexistence of infinite attractors in a fractal Josephson junction resonator with unharmonic current phase relation considering feedback flux effect. Nonlinear Dynamics, 2021, 103, 1979-1998.	2.7	13

#	ARTICLE	IF	CITATIONS
37	A Memristive Hyperjerk Chaotic System: Amplitude Control, FPGA Design, and Prediction with Artificial Neural Network. Complexity, 2021, 2021, 1-17.	0.9	12
38	Fractional-Order Analysis of Modified Chua's Circuit System with the Smooth Degree of 3 and Its Microcontroller-Based Implementation with Analog Circuit Design. Symmetry, 2021, 13, 340.	1.1	13
39	A Simple Chaotic Wien Bridge Oscillator with a Fractional-Order Memristor and Its Combination Synchronization for Efficient Antiattack Capability. Complexity, 2021, 2021, 1-13.	0.9	6
40	A New Megastable Chaotic Oscillator with Blinking Oscillation terms. Complexity, 2021, 2021, 1-12.	0.9	12
41	SUPPRESSING SPIRAL WAVE TURBULENCE IN A SIMPLE FRACTIONAL-ORDER DISCRETE NEURON MAP USING IMPULSE TRIGGERING. Fractals, 2021, 29, .	1.8	14
42	Suppressing spiral waves in a lattice array of coupled neurons using delayed asymmetric synapse coupling. Chaos, Solitons and Fractals, 2021, 146, 110855.	2.5	19
43	Modified Morris-Lecar neuron model: effects of very low frequency electric fields and of magnetic fields on the local and network dynamics of an excitable media. Nonlinear Dynamics, 2021, 104, 4427-4443.	2.7	12
44	Size matters: Effects of the size of heterogeneity on the wave re-entry and spiral wave formation in an excitable media. Chaos, 2021, 31, 053131.	1.0	9
45	New hyperchaotic system with single nonlinearity, its electronic circuit and encryption design based on current conveyor. Turkish Journal of Electrical Engineering and Computer Sciences, 2021, 29, 1692-1705.	0.9	6
46	Control, synchronization with linear quadratic regulator method and FFANN-based PRNG application on FPGA of a novel chaotic system. European Physical Journal: Special Topics, 2021, 230, 1915-1931.	1.2	10
47	A New Circumscribed Self-Excited Spherical Strange Attractor. Complexity, 2021, 2021, 1-8.	0.9	7
48	Predicting Tipping Points in Chaotic Maps with Period-Doubling Bifurcations. Complexity, 2021, 2021, 1-10.	0.9	1
49	A New Multi-Scroll Megastable Oscillator Based on the Sign Function. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150140.	0.7	8
50	Chimera State in the Network of Fractional-Order FitzHugh-Nagumo Neurons. Complexity, 2021, 2021, 1-9.	0.9	15
51	Local and network behavior of bistable vibrational energy harvesters considering periodic and quasiperiodic excitations. Chaos, 2021, 31, 063111.	1.0	7
52	A non-autonomous chaotic system with no equilibrium. The Integration VLSI Journal, 2021, 79, 143-156.	1.3	9
53	Noise induced suppression of spiral waves in a hybrid FitzHugh-Nagumo neuron with discontinuous resetting. Chaos, 2021, 31, 073117.	1.0	21
54	A family of circulant megastable chaotic oscillators, its application for the detection of a feeble signal and PID controller for time-delay systems by using chaotic SCA algorithm. Chaos, Solitons and Fractals, 2021, 148, 110992.	2.5	12

#	ARTICLE	IF	CITATIONS
55	Stabilization and Synchronization of a Complex Hidden Attractor Chaotic System by Backstepping Technique. <i>Entropy</i> , 2021, 23, 921.	1.1	8
56	A fractional-order ship power system: chaos and its dynamical properties. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2021, .	0.4	4
57	A Novel Megastable Oscillator with a Strange Structure of Coexisting Attractors: Design, Analysis, and FPGA Implementation. <i>Complexity</i> , 2021, 2021, 1-11.	0.9	2
58	On the dynamics of a system of two coupled van der Pol oscillators subjected to a constant excitation force: effects of broken symmetry. <i>European Physical Journal: Special Topics</i> , 2021, 230, 3551-3564.	1.2	3
59	Proposing and Dynamical Analysis of a Hyperjerk Piecewise Linear Chaotic System with Offset Boostable Variable and Hidden Attractors. <i>Complexity</i> , 2021, 2021, 1-11.	0.9	1
60	Effect of magnetic induction on the synchronizability of coupled neuron network. <i>Chaos</i> , 2021, 31, 083115.	1.0	25
61	Suppressing Chaos in Josephson Junction Model with Coexisting Attractors and Investigating Its Collective Behavior in a Network. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 2761.	0.8	10
62	Controlled Differentiation of Mesenchymal Stem Cells into Hyaline Cartilage in miR-140-Activated Collagen Hydrogel. <i>Cartilage</i> , 2021, , 194760352110476.	1.4	1
63	Effect of temperature sensitive ion channels on the single and multilayer network behavior of an excitable media with electromagnetic induction. <i>Chaos, Solitons and Fractals</i> , 2021, 150, 111144.	2.5	19
64	Chaotic Power System Stabilization Based on Novel Incommensurate Fractional-Order Linear Augmentation Controller. <i>Complexity</i> , 2021, 2021, 1-13.	0.9	2
65	A simple fractional-order chaotic system based on memristor and memcapacitor and its synchronization application. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111306.	2.5	44
66	Long-Term Evaluation of Allogenic Chondrocyte-Loaded PVA/PCL IPN Scaffolds for Articular Cartilage Repair in Rabbits. <i>Indian Journal of Orthopaedics</i> , 2021, 55, 853-860.	0.5	3
67	Low Computational Artificial Intelligence Genetic Algorithm Assisted SLM PAPR Reduction Technique for Upcoming 5G Based Smart Hospital. <i>Studies in Computational Intelligence</i> , 2021, , 555-567.	0.7	4
68	Simulation and experimental implementations of memcapacitor based multi-stable chaotic oscillator and its dynamical analysis. <i>Physica Scripta</i> , 2021, 96, 015209.	1.2	8
69	Four-Scroll Hyperchaotic Attractor in a Five-Dimensional Memristive Wien Bridge Oscillator: Analysis and Digital Electronic Implementation. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-21.	0.6	2
70	Josephson junction model with cosine interference term: Analysis, microcontroller implementation, and network analysis. <i>Physica Scripta</i> , 2021, 96, 125232.	1.2	7
71	Broken symmetry and dynamics of a memristive diodes bridge-based Shinriki oscillator. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 588, 126562.	1.2	9
72	Synchronization and chimera states in the network of electrochemically coupled memristive Rulkov neuron maps. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 9394-9409.	1.0	26

#	ARTICLE	IF	CITATIONS
73	Spiral waves in a hybrid discrete excitable media with electromagnetic flux coupling. <i>Chaos</i> , 2021, 31, 113132.	1.0	6
74	Blow-Up of Solutions for a Coupled Nonlinear Viscoelastic Equation with Degenerate Damping Terms: Without Kirchhoff Term. <i>Complexity</i> , 2021, 2021, 1-9.	0.9	1
75	Dynamical Behavior of a New Chaotic System with One Stable Equilibrium. <i>Mathematics</i> , 2021, 9, 3217.	1.1	6
76	Switching between Dissipative and Conservative Behaviors in a Modified Hyperchaotic System with the Variation of Its Parameter. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, .	0.7	8
77	A Chaotic Quadratic Bistable Hyperjerk System with Hidden Attractors and a Wide Range of Sample Entropy: Impulsive Stabilization. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, .	0.7	5
78	Connecting Curves as a Tool to Localize Hidden Attractors in a New Chaotic Hyperjerk System with No Equilibria. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, .	0.7	1
79	Dynamical Effects of Offset Terms on a Modified Chua's Oscillator and Its Circuit Implementation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, .	0.7	2
80	Comparing the chondrogenic potential of rabbit mesenchymal stem cells derived from the infrapatellar fat pad, periosteum & bone marrow. <i>Indian Journal of Medical Research</i> , 2021, 154, 732.	0.4	4
81	An exponential jerk system, its fractional-order form with dynamical analysis and engineering application. <i>Soft Computing</i> , 2020, 24, 7469-7479.	2.1	15
82	Analysis, Synchronization and Microcontroller Implementation of a New Quasiperiodically Forced Chaotic Oscillator with Megastability. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2020, 44, 31-45.	1.5	11
83	A Novel 5D Chaotic System with Extreme Multi-stability and a Line of Equilibrium and Its Engineering Applications: Circuit Design and FPGA Implementation. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2020, 44, 59-67.	1.5	15
84	Complete dynamical analysis of myocardial cell exposed to magnetic flux. <i>Chinese Journal of Physics</i> , 2020, 64, 363-373.	2.0	6
85	Chaotic dynamics of a fractional order glucose-insulin regulatory system. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 1108-1118.	1.5	17
86	Route to Chaos and Bistability Analysis of Quasi-Periodically Excited Three-Leg Supporter with Shape Memory Alloy. <i>Complexity</i> , 2020, 2020, 1-10.	0.9	3
87	Network Dynamics of a Fractional-Order Phase-Locked Loop with Infinite Coexisting Attractors. <i>Complexity</i> , 2020, 2020, 1-11.	0.9	3
88	Elimination of spiral waves in a one-layer and two-layer network of pancreatic beta cells using a periodic stimuli. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110093.	2.5	10
89	Route to Chaos in an Electrostatic Ion Cyclotron with Higher-Order Source Term. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2020, 44, 1205-1215.	0.7	2
90	In vivo cartilage regeneration in a multi-layered articular cartilage architecture mimicking scaffold. <i>Bone and Joint Research</i> , 2020, 9, 601-612.	1.3	12

#	ARTICLE	IF	CITATIONS
91	Bifurcation and chaos in a bearing system. International Journal of Modern Physics B, 2020, 34, 2050176.	1.0	2
92	Self-Excited and Hidden Attractors in a Simple Chaotic Jerk System and in Its Time-Delayed Form: Analysis, Electronic Implementation, and Synchronization. Journal of the Korean Physical Society, 2020, 77, 145-152.	0.3	11
93	Existence of Metastable, Hyperchaos, Line of Equilibria and Self-Excited Attractors in a New Hyperjerk Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030037.	0.7	6
94	A novel dissipative and conservative megastable oscillator with engineering applications. Modern Physics Letters B, 2020, 34, 2150007.	1.0	7
95	Nonlinear Dynamics and Entropy of Complex Systems with Hidden and Self-Excited Attractors II. Entropy, 2020, 22, 1428.	1.1	3
96	Route to hyperchaos and chimera states in a network of modified Hindmarsh-Rose neuron model with electromagnetic flux and external excitation. European Physical Journal: Special Topics, 2020, 229, 929-942.	1.2	17
97	Wave propagation in a network of extended Morris-Lecar neurons with electromagnetic induction and its local kinetics. Nonlinear Dynamics, 2020, 100, 3625-3644.	2.7	29
98	A fractional-order model for the novel coronavirus (COVID-19) outbreak. Nonlinear Dynamics, 2020, 101, 711-718.	2.7	119
99	A Novel Hypogenetic Chaotic Jerk System: Modeling, Circuit Implementation, and Its Application. Mathematical Problems in Engineering, 2020, 2020, 1-9.	0.6	3
100	Fracmemristor chaotic oscillator with multistable and antimonotonicity properties. Journal of Advanced Research, 2020, 25, 137-145.	4.4	10
101	Wave propagation and spiral wave formation in a Hindmarsh-Rose neuron model with fractional-order threshold memristor synaps. International Journal of Modern Physics B, 2020, 34, 2050157.	1.0	27
102	Dynamical analysis, FPGA implementation and its application to chaos based random number generator of a fractal Josephson junction with unharmonic current-phase relation. European Physical Journal B, 2020, 93, 1.	0.6	21
103	Infinite attractors in a chaotic circuit with exponential memristor and Josephson junction resonator. AEU - International Journal of Electronics and Communications, 2020, 123, 153319.	1.7	23
104	Dynamic analysis, FPGA implementation, and cryptographic application of an autonomous 5D chaotic system with offset boosting. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 950-961.	1.5	20
105	Delay-induced synchronization in two coupled chaotic memristive Hopfield neural networks. Chaos, Solitons and Fractals, 2020, 134, 109702.	2.5	38
106	A Novel Simple 4-D Hyperchaotic System with a Saddle-Point Index-2 Equilibrium Point and Multistability: Design and FPGA-Based Applications. Circuits, Systems, and Signal Processing, 2020, 39, 4259-4280.	1.2	28
107	A new hidden attractor hyperchaotic memristor oscillator with a line of equilibria. European Physical Journal: Special Topics, 2020, 229, 1279-1288.	1.2	11
108	Simple megastable oscillators with different types of attractors; tori, chaotic and hyperchaotic ones. European Physical Journal: Special Topics, 2020, 229, 1155-1161.	1.2	8

#	ARTICLE	IF	CITATIONS
109	Modification of the Logistic Map Using Fuzzy Numbers with Application to Pseudorandom Number Generation and Image Encryption. <i>Entropy</i> , 2020, 22, 474.	1.1	38
110	Observation of chimera patterns in a network of symmetric chaotic finance systems. <i>Communications in Theoretical Physics</i> , 2020, 72, 105003.	1.1	5
111	Chaotic cuttlesh: king of camouage with self-excited and hidden flows, its fractional-order form and communication designs with fractional form. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2020, 25, 1001-1013.	0.5	1
112	DYNAMIC ANALYSIS AND FPGA IMPLEMENTATION OF FRACTIONAL-ORDER MODEL OF A 5D HOMOPOLAR DISC DYNAMO. <i>Mechatronic Systems and Control</i> , 2020, 48, .	0.2	1
113	Taming of the Hopf bifurcation in a driven El Niño model. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2020, 75, 699-704.	0.7	0
114	An unforced megastable chaotic oscillator and its application on protecting electrophysiological signals. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2020, 75, 1025-1037.	0.7	4
115	Bifurcation, Chaos and its Control in A Fractional Order Power System Model with Uncertainties. <i>Asian Journal of Control</i> , 2019, 21, 184-193.	1.9	26
116	An Exponential Jerk System: Circuit Realization, Fractional Order and Time Delayed Form with Dynamical Analysis and Its Engineering Application. <i>Journal of Circuits, Systems and Computers</i> , 2019, 28, 1950087.	1.0	15
117	Hyperchaos and Coexisting Attractors in a Modified van der Pol-Duffing Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950067.	0.7	17
118	Multiscroll chaotic system with sigmoid nonlinearity and its fractional order form with synchronization application. <i>International Journal of Non-Linear Mechanics</i> , 2019, 116, 262-272.	1.4	25
119	Analysis and electronic implementation of an absolute memristor autonomous Van der Pol-Duffing circuit. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2287-2299.	1.2	8
120	CAMO: Self-Excited and Hidden Chaotic Flows. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950143.	0.7	9
121	Dynamical analysis, sliding mode synchronization of a fractional-order memristor Hopfield neural network with parameter uncertainties and its non-fractional-order FPGA implementation. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2065-2080.	1.2	36
122	Coexistence of attractors in a simple chaotic oscillator with fractional-order-memristor component: analysis, FPGA implementation, chaos control and synchronization. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2035-2051.	1.2	28
123	Antimonotonicity and multistability in a fractional order memristive chaotic oscillator. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1969-1981.	1.2	12
124	Chaotic Dynamics of an Airfoil with Higher-Order Plunge and Pitch Stiffnesses in Incompressible Flow. <i>Complexity</i> , 2019, 2019, 1-10.	0.9	1
125	Dynamical behavior and network analysis of an extended Hindmarsh-Rose neuron model. <i>Nonlinear Dynamics</i> , 2019, 98, 477-487.	2.7	36
126	Fractional-order chaotic system with hyperbolic function. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401987258.	0.8	10



#	ARTICLE	IF	CITATIONS
127	Synchronization in a multiplex network of gene oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125919.	0.9	6
128	Hyperjerk multiscroll oscillators with megastability: Analysis, FPGA implementation and a novel ANN-ring-based True Random Number Generator. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 112, 152941.	1.7	51
129	Analysis and FPGA implementation of an autonomous Josephson junction snap oscillator. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	11
130	Dynamical analysis of a new multistable chaotic system with hidden attractor: Antimonotonicity, coexisting multiple attractors, and offset boosting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 1450-1456.	0.9	111
131	Dynamical investigation and chaotic associated behaviors of memristor Chua's circuit with a non-ideal voltage-controlled memristor and its application to voice encryption. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 107, 183-191.	1.7	24
132	A Simple Chaotic System With Topologically Different Attractors. <i>IEEE Access</i> , 2019, 7, 89936-89947.	2.6	19
133	Spiral waves in externally excited neuronal network: Solvable model with a monotonically differentiable magnetic flux. <i>Chaos</i> , 2019, 29, 043109.	1.0	32
134	A New Four-Dimensional Chaotic System With No Equilibrium Point. , 2019, , 63-76.		7
135	A New Five Dimensional Multistable Chaotic System With Hidden Attractors. , 2019, , 77-87.		7
136	A family of conservative chaotic systems with cyclic symmetry. <i>Pramana - Journal of Physics</i> , 2019, 92, 1.	0.9	18
137	Birth and death of spiral waves in a network of Hindmarsh-Rose neurons with exponential magnetic flux and excitable media. <i>Applied Mathematics and Computation</i> , 2019, 354, 377-384.	1.4	36
138	Dynamics of a neuron exposed to integer- and fractional-order discontinuous external magnetic flux. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 584-590.	1.5	30
139	Nonlinear Dynamics and Entropy of Complex Systems with Hidden and Self-Excited Attractors. <i>Entropy</i> , 2019, 21, 370.	1.1	9
140	Antimonotonicity, Bifurcation and Multistability in the Vallis Model for El Niño. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950032.	0.7	15
141	Analysis, Control and FPGA Implementation of a Fractional-Order Modified Shinriki Circuit. <i>Journal of Circuits, Systems and Computers</i> , 2019, 28, 1950232.	1.0	12
142	Dissipative and conservative chaotic nature of a new quasi-periodically forced oscillator with megastability. <i>Chinese Journal of Physics</i> , 2019, 58, 263-272.	2.0	31
143	Simplest Megastable Chaotic Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950187.	0.7	32
144	Multistability and Coexisting Attractors in a New Circulant Chaotic System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950174.	0.7	32

#	ARTICLE	IF	CITATIONS
145	A New Imprisoned Strange Attractor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950181.	0.7	6
146	Effect of epistasis on the performance of genetic algorithms. Journal of Zhejiang University: Science A, 2019, 20, 109-116.	1.3	4
147	Parameter Identification of Chaotic Systems Using a Modified Cost Function Including Static and Dynamic Information of Attractors in the State Space. Circuits, Systems, and Signal Processing, 2019, 38, 2039-2054.	1.2	11
148	Cost function based on hidden Markov models for parameter estimation of chaotic systems. Soft Computing, 2019, 23, 4765-4776.	2.1	6
149	Fractional Order Simple Chaotic Oscillator with Saturable Reactors and Its Engineering Applications. Information Technology and Control, 2019, 48, .	1.1	1
150	A New Chaotic Flow with Hidden Attractor: The First Hyperjerk System with No Equilibrium. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 239-249.	0.7	68
151	A chaotic jerk system with non-hyperbolic equilibrium: Dynamics, effect of time delay and circuit realisation. Pramana - Journal of Physics, 2018, 90, 1.	0.9	37
152	Synchronisation, electronic circuit implementation, and fractional-order analysis of 5D ordinary differential equations with hidden hyperchaotic attractors. Pramana - Journal of Physics, 2018, 90, 1.	0.9	19
153	Difference equations of a memristor higher order hyperchaotic oscillator. African Journal of Science, Technology, Innovation and Development, 2018, 10, 279-285.	0.8	9
154	A new four-dimensional system containing chaotic or hyper-chaotic attractors with no equilibrium, a line of equilibria and unstable equilibria. Chaos, Solitons and Fractals, 2018, 111, 108-118.	2.5	57
155	Modified jerk system with self-exciting and hidden flows and the effect of time delays on existence of multi-stability. Nonlinear Dynamics, 2018, 93, 1087-1108.	2.7	25
156	A Simple Snap Oscillator with Coexisting Attractors, Its Time-Delayed Form, Physical Realization, and Communication Designs. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 385-398.	0.7	10
157	Extreme multi-stability: When imperfection changes quality. Chaos, Solitons and Fractals, 2018, 108, 182-186.	2.5	66
158	A new transiently chaotic flow with ellipsoid equilibria. Pramana - Journal of Physics, 2018, 90, 1.	0.9	13
159	Hyperchaotic Memcapacitor Oscillator with Infinite Equilibria and Coexisting Attractors. Circuits, Systems, and Signal Processing, 2018, 37, 3702-3724.	1.2	50
160	FPGA implementation of fractional-order discrete memristor chaotic system and its commensurate and incommensurate synchronisations. Pramana - Journal of Physics, 2018, 90, 1.	0.9	28
161	Dynamic analyses, FPGA implementation and engineering applications of multi-butterfly chaotic attractors generated from generalised Sprott C system. Pramana - Journal of Physics, 2018, 90, 1.	0.9	27
162	A new 4D chaotic system with hidden attractor and its engineering applications: Analog circuit design and field programmable gate array implementation. Pramana - Journal of Physics, 2018, 90, 1.	0.9	21

#	ARTICLE	IF	CITATIONS
163	Fractional order nonlinear variable speed and current regulation of a permanent magnet synchronous generator wind turbine system. AEJ - Alexandria Engineering Journal, 2018, 57, 159-167.	3.4	17
164	Complex novel 4D memristor hyperchaotic system and its synchronization using adaptive sliding mode control. AEJ - Alexandria Engineering Journal, 2018, 57, 683-694.	3.4	25
165	Dynamical analysis and FPGA implementation of a chaotic oscillator with fractional-order memristor components. Nonlinear Dynamics, 2018, 91, 1491-1512.	2.7	49
166	Fractional Order Synchronous Reluctance Motor: Analysis, Chaos Control and FPGA Implementation. Asian Journal of Control, 2018, 20, 1979-1993.	1.9	32
167	Autonomous Van der Pol's Duffing snap oscillator: analysis, synchronization and applications to real-time image encryption. International Journal of Dynamics and Control, 2018, 6, 1008-1022.	1.5	22
168	A chaotic memcapacitor oscillator with two unstable equilibriums and its fractional form with engineering applications. Nonlinear Dynamics, 2018, 91, 957-974.	2.7	60
169	No Chattering and Adaptive Sliding Mode Control of a Fractional-Order Phase Converter with Disturbances and Parameter Uncertainties. Complexity, 2018, 2018, 1-13.	0.9	2
170	Hidden Attractor in a Passive Motion Model of Compass-Gait Robot. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850171.	0.7	19
171	Some New Dissipative Chaotic Systems with Cyclic Symmetry. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850164.	0.7	9
172	Investigation of dynamical properties in a chaotic flow with one unstable equilibrium: Circuit design and entropy analysis. Chaos, Solitons and Fractals, 2018, 115, 7-13.	2.5	4
173	A Hopfield neural network with multiple attractors and its FPGA design. European Physical Journal: Special Topics, 2018, 227, 811-820.	1.2	30
174	Multistability and coexisting attractors in a fractional order Coronary artery system. European Physical Journal: Special Topics, 2018, 227, 837-850.	1.2	18
175	Monostability, bistability, periodicity and chaos in gene regulatory network. European Physical Journal: Special Topics, 2018, 227, 719-730.	1.2	11
176	A Novel Approach to Numerical Modeling of Metabolic System: Investigation of Chaotic Behavior in Diabetes Mellitus. Complexity, 2018, 2018, 1-11.	0.9	10
177	A new hyperchaotic temperature fluctuations model, its circuit simulation, FPGA implementation and an application to image encryption. International Journal of Simulation and Process Modelling, 2018, 13, 281.	0.1	42
178	A novel parametrically controlled multi-scroll chaotic attractor along with electronic circuit design. European Physical Journal Plus, 2018, 133, 1.	1.2	21
179	Autonomous Jerk Oscillator with Cosine Hyperbolic Nonlinearity: Analysis, FPGA Implementation, and Synchronization. Advances in Mathematical Physics, 2018, 2018, 1-12.	0.4	6
180	Complete analysis and engineering applications of a megastable nonlinear oscillator. International Journal of Non-Linear Mechanics, 2018, 107, 126-136.	1.4	115

#	ARTICLE	IF	CITATIONS
181	Twin birds inside and outside the cage. <i>Chaos, Solitons and Fractals</i> , 2018, 112, 135-140.	2.5	15
182	Multistability in Horizontal Platform System with and without Time Delays. <i>Shock and Vibration</i> , 2018, 2018, 1-8.	0.3	8
183	Bifurcation and Chaos in Integer and Fractional Order Two-Degree-of-Freedom Shape Memory Alloy Oscillators. <i>Complexity</i> , 2018, 2018, 1-9.	0.9	4
184	Chaos in a System with an Absolute Nonlinearity and Chaos Synchronization. <i>Advances in Mathematical Physics</i> , 2018, 2018, 1-12.	0.4	9
185	A hyperchaotic memristor oscillator with fuzzy based chaos control and LQR based chaos synchronization. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 94, 55-68.	1.7	64
186	Wavefront-obstacle interactions and the initiation of reentry in excitable media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 1162-1173.	1.2	23
187	Complex dynamics of a neuron model with discontinuous magnetic induction and exposed to external radiation. <i>Cognitive Neurodynamics</i> , 2018, 12, 607-614.	2.3	48
188	A Novel Class of Chaotic Flows with Infinite Equilibriums and Their Application in Chaos-Based Communication Design Using DCSK. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018, 73, 609-617.	0.7	8
189	Complete dynamical analysis of a neuron under magnetic flow effect. <i>Chinese Journal of Physics</i> , 2018, 56, 2254-2264.	2.0	22
190	A hyperchaotic memristor system with exponential and discontinuous memductance function. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 95, 249-255.	1.7	21
191	A New Fractional-Order Chaotic System with Different Families of Hidden and Self-Excited Attractors. <i>Entropy</i> , 2018, 20, 564.	1.1	70
192	A no-equilibrium memristive system with four-wing hyperchaotic attractor. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 95, 207-215.	1.7	47
193	A new nonlinear oscillator with infinite number of coexisting hidden and self-excited attractors. <i>Chinese Physics B</i> , 2018, 27, 040502.	0.7	60
194	A new three-dimensional chaotic flow with one stable equilibrium: dynamical properties and complexity analysis. <i>Open Physics</i> , 2018, 16, 260-265.	0.8	5
195	A novel class of chaotic systems with different shapes of equilibrium and microcontroller-based cost-effective design for digital applications. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	11
196	Neural Network-Based Solutions for Stochastic Optimal Control Using Path Integrals. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 534-545.	7.2	18
197	Cost Detectability and Stability of Multiple Model-based Adaptive Controllers Using Data-Driven Control Theory. , 2017, , .		0
198	Chaos Suppression in Fractional order Permanent Magnet Synchronous Generator in Wind Turbine Systems. <i>Nonlinear Engineering</i> , 2017, 6, .	1.4	12

#	ARTICLE	IF	CITATIONS
199	FPGA implementation of novel fractional-order chaotic systems with two equilibriums and no equilibrium and its adaptive sliding mode synchronization. <i>Nonlinear Dynamics</i> , 2017, 87, 2281-2304.	2.7	134
200	FPGA implementation of adaptive sliding mode control and genetically optimized PID control for fractional-order induction motor system with uncertain load. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	15
201	Chaotic chameleon: Dynamic analyses, circuit implementation, FPGA design and fractional-order form with basic analyses. <i>Chaos, Solitons and Fractals</i> , 2017, 103, 476-487.	2.5	81
202	Bifurcation and chaos in time delayed fractional order chaotic memfractor oscillator and its sliding mode synchronization with uncertainties. <i>Chaos, Solitons and Fractals</i> , 2017, 103, 347-356.	2.5	32
203	Dynamic analysis and chaos suppression in a fractional order brushless DC motor. <i>Electrical Engineering</i> , 2017, 99, 721-733.	1.2	59
204	Time-delayed chameleon: Analysis, synchronization and FPGA implementation. <i>Pramana - Journal of Physics</i> , 2017, 89, 1.	0.9	21
205	A novel fractional-order chaotic system with specific topology: from proposing to FPGA implementation. <i>European Physical Journal: Special Topics</i> , 2017, 226, 3729-3745.	1.2	7
206	Fractional and non-fractional chaotic amphibian attractors with self-excited and hidden properties: numerical dynamics, circuit realization and FPGA-based application. <i>European Physical Journal: Special Topics</i> , 2017, 226, 3827-3850.	1.2	7
207	Dynamical Analysis and FPGA Implementation of a Novel Hyperchaotic System and Its Synchronization Using Adaptive Sliding Mode Control and Genetically Optimized PID Control. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-14.	0.6	51
208	Fractional Order Memristor No Equilibrium Chaotic System with Its Adaptive Sliding Mode Synchronization and Genetically Optimized Fractional Order PID Synchronization. <i>Complexity</i> , 2017, 2017, 1-19.	0.9	67
209	Bifurcation Analysis and Chaos Control of a Fractional Order Portal Frame with Nonideal Loading Using Adaptive Sliding Mode Control. <i>Shock and Vibration</i> , 2017, 2017, 1-14.	0.3	6
210	Hyperchaotic Chameleon: Fractional Order FPGA Implementation. <i>Complexity</i> , 2017, 2017, 1-16.	0.9	43
211	LabVIEW implementation of chaotic masking with adaptively synchronised forced Van der Pol oscillators and its application in real-time image encryption. <i>International Journal of Simulation and Process Modelling</i> , 2017, 12, 165.	0.1	13
212	Chaos Control in Fractional Order Smart Grid with Adaptive Sliding Mode Control and Genetically Optimized PID Control and Its FPGA Implementation. <i>Complexity</i> , 2017, 2017, 1-18.	0.9	23
213	Chaos Suppression in Fractional Order Permanent Magnet Synchronous Motor and PI controlled Induction motor by Extended Back stepping Control. <i>Nonlinear Engineering</i> , 2016, 5, .	1.4	4
214	Chaos suppression of Fractional order Willamowski-Rössler Chemical system and its synchronization using Sliding Mode Control. <i>Nonlinear Engineering</i> , 2016, 5, .	1.4	5
215	Intelligent switching between multiple model-based adaptive controllers using data-driven control theory. , 2016, , .		0
216	Does pamidronate enhance the osteogenesis in mesenchymal stem cells derived from fibrous hamartoma in congenital pseudarthrosis of the tibia?. <i>Bone Reports</i> , 2016, 5, 292-298.	0.2	8

#	ARTICLE	IF	CITATIONS
217	Optimal controller design for control-affine stochastic systems using neural networks and path integrals. , 2016, , .		0
218	Bone marrow extract as a growth supplement for human iliac apophyseal chondrocyte culture. Indian Journal of Medical Research, 2016, 144, 831.	0.4	3
219	Design and SPICE implementation of a 12-term novel hyperchaotic system and its synchronisation via active control. International Journal of Modelling, Identification and Control, 2015, 23, 267.	0.2	112
220	Classical and Atypical Fibrodysplasia Ossificans Progressiva in India. Annals of Human Genetics, 2015, 79, 245-252.	0.3	8
221	Modified State Observer Based Adaptation for a General Aviation Aircraft - Simulation and Flight Test. , 2014, , .		2
222	Viability, proliferation and phenotype maintenance in cryopreserved human iliac apophyseal chondrocytes. Cell and Tissue Banking, 2014, 15, 153-163.	0.5	4
223	Reinforcement learning based controller synthesis for flexible aircraft wings. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 435-448.	8.5	13
224	Neural Network Based Modified State Observer for Orbit Uncertainty Estimation. Journal of Guidance, Control, and Dynamics, 2013, 36, 1194-1209.	1.6	18
225	Anti-synchronization of Rabinovich systems using active and adaptive controllers. , 2013, , .		0
226	QUANTUM INSPIRED REINFORCEMENT LEARNING IN CHANGING ENVIRONMENT. New Mathematics and Natural Computation, 2013, 09, 273-294.	0.4	13
227	Time Delay Margin Analysis of Modified State Observer Based Adaptive Control. , 2013, , .		1
228	Chondrocyte source for cartilage regeneration in an immature animal: Is iliac apophysis a good alternative?. Indian Journal of Orthopaedics, 2012, 46, 402.	0.5	8
229	Modified State Observer for Orbit Uncertainty Estimation. , 2011, , .		7
230	Anti-synchronization of Li and T Chaotic Systems by Active Nonlinear Control. Communications in Computer and Information Science, 2011, , 175-184.	0.4	34
231	Global Chaos Synchronization of Hyperchaotic Pang and Wang Systems by Active Nonlinear Control. Communications in Computer and Information Science, 2011, , 84-93.	0.4	28
232	Global Chaos Synchronization of $L\frac{1}{4}$ and Pan Systems by Adaptive Nonlinear Control. Communications in Computer and Information Science, 2011, , 193-202.	0.4	32
233	Robust Adaptive Control of a General Aviation Aircraft. , 2010, , .		5
234	Effects of noise on the wave propagation in an excitable media with magnetic induction. European Physical Journal: Special Topics, 0, , 1.	1.2	3

#	ARTICLE	IF	CITATIONS
235	Effect of Noise variance in spiral wave suppression for a multi-layered neuron model with flux coupling modelled using a memristor. European Physical Journal: Special Topics, 0, , 1.	1.2	2
236	The linearity of the master stability function. Europhysics Letters, 0, , .	0.7	2
237	The effects of extreme multistability on the collective dynamics of coupled memristive neurons. European Physical Journal: Special Topics, 0, , .	1.2	16