

Sajad Jafari



Contact Information

Assistant Professor (since 2013)

Biomedical Engineering Faculty, Amirkabir University of Technology, 424 Hafez Ave,
15875-4413, Tehran, Iran

Email: sajadjafari83@gmail.com; sajadjafari@aut.ac.ir

Phone: +982164542398

Mobile: +989127652908

ResearchGate link:

https://www.researchgate.net/profile/Sajad_Jafari3

Google Scholar link:

<https://scholar.google.com/citations?user=tiCsmt8AAAAJ&hl=en>

Current Position

Assistant Professor

Biomedical Engineering Faculty, Amirkabir University of
Technology (Top 3 in Iran), Tehran, Iran

2013 to Present

Education

Sep 2008 – Sep 2013 **Amirkabir University of Technology**
Doctor of Philosophy (Ph.D.), Biomedical Engineering
Tehran, Iran

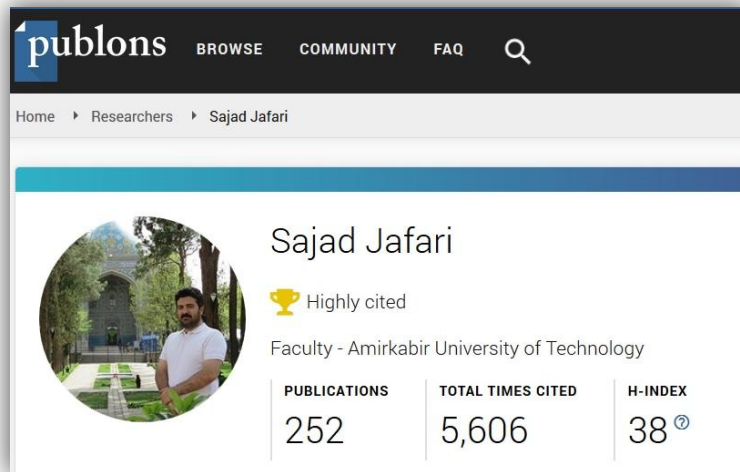
Sep 2005 – May **Amirkabir University of Technology**
2008 Master of Science (MSc), Biomedical Engineering
Tehran, Iran

Sep 2001 – Sep 2005 **Amirkabir University of Technology**

Bachelor's degree, Biomedical Engineering
Tehran, Iran

Scientific and Social Impact of Research

- Among Highly Cited Researchers according to Clarivate Analytics since 2019
<https://recognition.webofsciencegroup.com/awards/highly-cited/2019/>
<https://publons.com/researcher/2045435/sajad-jafari/>




- Among top 1% most cited physicists according to Thomson Reuters Highly Cited Researchers
- Winner of **COMSTech** award in mathematics (2019)

Number of journal papers: **259**

Total citation according to **Google Scholar** (September 2020): **7295**

h-index: **42**

i10-index: **140**



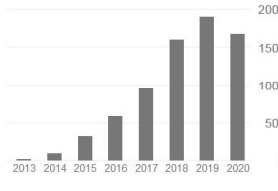
Sajad Jafari ✎

Amirkabir University of Technology
Verified email at aut.ac.ir

Chaos Chaotic Systems Nonlinear Dynamics Optimization.

FOLLOWING


	All	Since 2015
Citations	7295	7113
h-index	42	42
i10-index	140	137



Cited by


TITLE	CITED BY	YEAR
<input type="checkbox"/> Hidden attractors in dynamical systems D Dudkowski, S Jafari, T Kapitaniak, NV Kuznetsov, GA Leonov, A Prasad Physics Reports 637, 1-50	404	2016
<input type="checkbox"/> Simple chaotic flows with a line equilibrium S Jafari, JC Sprott Chaos, Solitons & Fractals 57, 79-84	384	2013
<input type="checkbox"/> Elementary quadratic chaotic flows with no equilibria S Jafari, JC Sprott, SMRH Golpayegani Physics Letters A 377 (9), 699-702	356	2013
<input type="checkbox"/> Simple chaotic flows with one stable equilibrium M Molaie, S Jafari, JC Sprott, SMRH Golpayegani International Journal of Bifurcation and Chaos 23 (11), 1350188	268	2013
<input type="checkbox"/> Hidden attractors in a chaotic system with an exponential nonlinear term VT Pham, S Vaidyanathan, CK Volos, S Jafari The European Physical Journal Special Topics 224 (8), 1507-1517	163	2015

Co-authors EDIT



Dr. Christos Volos
Associate Professor, Physics De...

➤



Julien Clinton Sprott
Professor of Physics, University ...

➤

Selected Publications

TITLE	CITED BY	YEAR
<input type="checkbox"/> Hidden attractors in dynamical systems D Dudkowski, S Jafari, T Kapitaniak, NV Kuznetsov, GA Leonov, A Prasad Physics Reports 637, 1-50	404	2016
<input type="checkbox"/> Simple chaotic flows with a line equilibrium S Jafari, JC Sprott Chaos, Solitons & Fractals 57, 79-84	384	2013
<input type="checkbox"/> Elementary quadratic chaotic flows with no equilibria S Jafari, JC Sprott, SMRH Golpayegani Physics Letters A 377 (9), 699-702	356	2013
<input type="checkbox"/> Simple chaotic flows with one stable equilibrium M Molaie, S Jafari, JC Sprott, SMRH Golpayegani International Journal of Bifurcation and Chaos 23 (11), 1350188	268	2013
<input type="checkbox"/> Hidden attractors in a chaotic system with an exponential nonlinear term VT Pham, S Vaidyanathan, CK Volos, S Jafari The European Physical Journal Special Topics 224 (8), 1507-1517	163	2015
<input type="checkbox"/> Recent new examples of hidden attractors S Jafari, JC Sprott, F Nazarimehr The European Physical Journal Special Topics 224 (8), 1469-1476	163	2015
<input type="checkbox"/> Constructing a novel no-equilibrium chaotic system VT Pham, C Volos, S Jafari, Z Wei, X Wang International Journal of Bifurcation and Chaos 24 (05), 1450073	151	2014
<input type="checkbox"/> Three-dimensional chaotic autonomous system with only one stable equilibrium: Analysis, circuit design, parameter estimation, control, synchronization and its fractional-order form ST Kingni, S Jafari, H Simo, P Woafa The European Physical Journal Plus 129 (5), 76	134	2014
<input type="checkbox"/> Hidden hyperchaotic attractor in a novel simple memristive neural network VT Pham, C Volos, S Jafari, X Wang, S Vaidyanathan Optoelectronics and Advanced Materials, Rapid Communications 8 (11-12), 1157 ...	131	2014

Other Academic Merits

Associate editor:

International Journal of Bifurcation and Chaos (World Scientific, IF = 2.145)

<https://www.worldscientific.com/page/ijbc/editorial-board>

AEU - International Journal of Electronics and Communications (Elsevier, IF = 2.853)

<https://www.journals.elsevier.com/aeu-international-journal-of-electronics-and-communications/editorial-board>

Radioengineering (IF = 0.967)

<https://www.radioeng.cz/editorial-board.htm>

Chaos Theory and Applications

<https://dergipark.org.tr/en/pub/chaos/board>

Guest editor in special issues:

Complexity (IF = 2.591)

European Physical Journal-Special Topics (IF = 1.66)

Reviewer:

Information Science

Europhysics Letters (EPL)

Cognitive Neurodynamics

Advances in Mechanical Engineering

The European Physical Journal B

International Journal of Distributed Sensor Networks

Mathematics and Computers in Simulation

Frontiers in Applied Mathematics and Statistics

ISA Transactions

Applied Mathematics and Computation

International Journal of Nonlinear Sciences and Numerical Simulation

Advances in Difference Equations

International Journal of Robust and Nonlinear Control

Computers in Biology and Medicine

Discrete and Continuous Dynamical Systems-Series B

Discrete and Continuous Dynamical Systems-Series S

BioMed Research International

Complexity

Communications in Nonlinear Science and Numerical Simulation

Chaos (Woodbury, N.Y.)
AEU - International Journal of Electronics and Communications
International Journal of Dynamics and Control
Iranian Journal of Science and Technology - Transactions of Electrical Engineering
International Journal of Modern Physics B
Mathematical Problems in Engineering
IEEE Transactions on Circuits and Systems
Electrical Engineering
Pramana
Optik - International Journal for Light and Electron Optics
Chaos Solitons & Fractals
Scientific Reports
Neural Computing and Applications
Engineering Applications of Artificial Intelligence
Journal of Nonlinear Dynamics
The European Physical Journal Special Topics
Nonlinear Dynamics
Physics Letters A
Journal of Applied Mathematics
International Journal of Systems Science
International Journal of Bifurcation and Chaos
Journal of Theoretical Biology
Journal of Optoelectronics and Advanced Materials
Electronics Letters
Indian Journal of Physics
Scientia Iranica
Automatika
Journal of Complex Networks
Applied Soft Computing
SN Applied Sciences
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science
Science China Technological Sciences
Computer Methods and Programs in Biomedicine
New Journal of Physics
Neurocomputing

Teaching Experience (All in Amirkabir University of Technology, Top 3 in Iran)

Engineering Mathematics (undergraduate)

Differential equations (undergraduate)

Research Methodology (undergraduate and postgraduate)

Bio-inspired optimization (undergraduate)

Chaos and its applications in biomedical engineering (postgraduate)

References

Guanrong Chen Chair Professor Department of Electronic Engineering, City University of Hong Kong	Phone: 852-3442-7922 Email: eegchen@cityu.edu.hk
Julien C. Sprott Emeritus Professor of Physics University of Wisconsin, USA	Phone: +1 (608) 263-4449 Email: csprott@wisc.edu
Matjaž Perc Professor Faculty of Natural Sciences and Mathematics, University of Maribor, Slovenia	Phone: +38641981460 Email: matjazperc@gmail.com
Nikolay V. Kuznetsov Professor, Deputy Head of Department Faculty of Mathematics and Mechanics, Saint- Petersburg State University	Phone: +7 (812) 4284015 Email: nkuznetsov239@gmail.com

Complete List of Journal Publications

	Title	Journal	Authors
1	Pumped-storage unit commitment with considerations for energy demand, economics, and environmental constraints	Energy Q1 4.968	M.E. Nazari, M.M. Ardehali, Sajad Jafari
2	A new approach to experimental design for function approximation and classification: The twilight method	Scientia Iranica Q3 0.475	Sajad Jafari, H. R. Abdolmohammadi, F. Almasganj, Z. Shourgashti, M. R. Rajati
3	A novel low complexity multiuser detector based on modified genetic	Scientia Iranica	A. Zahedi, H. R. Bakhshi, Sajad Jafari, H.R.

	algorithm in Direct Sequence-Code Division Multiple Access communication systems	Q3 0.475	Abdolmohammadi, M.R. Rajati
4	A novel noise reduction method based on geometrical properties of continuous chaotic signals	Scientia Iranica Q3 0.475	Sajad Jafari, S. Mohammad Reza Hashemi Golpayegani, Amir Homayoun Jafari
5	A Chaotic Viewpoint on Noise Reduction from Respiratory Sounds	Biomedical Signal Processing and Control Q1 2.783	Malihe Molaie, Sajad Jafari, Mohammad Hasan Moradi, J. C. Sprott, S. Mohammad Reza Hashemi Golpayegani
6	Cost Function Based on Gaussian Mixture Model for Parameter Estimation of a Chaotic Circuit with a Hidden Attractor	International Journal of Bifurcation and Chaos Q1 1.501	Seng-Kin Lao, Yasser Shekofteh, Sajad Jafari, Julien Clinton Sprott
7	Elementary quadratic chaotic flows with no equilibria	Physics Letters A Q2 1.863	Sajad Jafari, J. C. Sprott, S. Mohammad Reza Hashemi Golpayegani
8	Simple chaotic flows with one stable equilibrium	International Journal of Bifurcation and Chaos Q1 1.501	Maliheh Molaie, Sajad Jafari, J. C. Sprott, S. Mohammad Reza Hashemi Golpayegani
9	Simple chaotic flows with a line equilibrium	Chaos, Solitons & Fractals Q2 2.213	Sajad Jafari, J. C. Sprott, S.
10	Comment on "Parameter identification and synchronization of fractional-order chaotic systems" [Commun Nonlinear Sci Numer Simulat 2012;17:305-16]	Communications in Nonlinear Science and Numerical Simulation Q1 3.181	Sajad Jafari, S. Mohammad Reza Hashemi Golpayegani, Mansour R. Darabad
11	Comment on 'Parameters identification of chaotic systems by quantum-behaved particle swarm optimization'[Int. J. Comput. Math. 86 (12)(2009), pp. 2225-2235]	International Journal of Computer Mathematics Q3 1.054	Sajad Jafari, S. Mohammad Reza Hashemi Golpayegani, A. Daliri
12	Some remarks on chaotic systems	International Journal of General Systems Q1 2.931	Sajad Jafari, S. Mohammad Reza Hashemi Golpayegani, Amir Homayoun Jafari, S. Gharibzadeh
13	A novel viewpoint on the parameter estimation in a chaotic neuron model	Journal of Neuropsychiatry & Clinical Neurosciences Q2 1.854	Sajad Jafari, S. Mohammad Reza Hashemi Golpayegani, Amir Homayoun Jafari, S. Gharibzadeh
14	Is Attention Deficit Hyperactivity Disorder a Kind of Intermittent Chaos?	Journal of Neuropsychiatry & Clinical Neurosciences Q2 1.854	Sajad Jafari, G. Baghdadi, S. Mohammad Reza Hashemi Golpayegani, F. Towhidkhal, S. Gharibzadeh
15	Is attention a "period window" in the chaotic brain?	Journal of Neuropsychiatry & Clinical Neurosciences Q2 1.854	Sajad Jafari, Z. Ansari, S. Mohammad Reza Hashemi Golpayegani, S. Gharibzadeh
16	Is there any geometrical information in the nervous system?	Frontiers in Computational Neuroscience Q2 2.073	Sajad Jafari, S. Mohammad Reza Hashemi Golpayegani, Shahriar Gharibzadeh
17	Artificial neural networks: powerful tools for modeling chaotic behavior in the nervous system	Frontiers in Computational Neuroscience Q2 2.073	Malihe Molaie, Razieh Falahian, Shahriar Gharibzadeh, Sajad Jafari, Julien C. Sprott
18	Constructing a novel no-equilibrium chaotic system	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Christos Volos, Sajad Jafari, Zhouchao Wei, Xiong Wang
19	Three-dimensional chaotic autonomous system with only one stable equilibrium: Analysis, circuit design, parameter estimation, control, synchronization and its fractional-order form	European Physical Journal Plus Q2 2.240	Sifeu Takougang Kingni, Sajad Jafari, Herve Simo, Paul Wofo
20	A Chaotic Model of Sustaining Attention Problem in Attention Deficit Disorder	Communications in Nonlinear Science and Numerical Simulation Q1 3.181	G. Baghdadi, S. Jafari, J. C. Sprott, F. Towhidkhal, M. R. Hashemi Golpayegani
21	Generating a novel hyperchaotic system out of equilibrium	Optoelectronics and Advanced Materials, Rapid Communications Q3 0.386	Viet-Thanh Pham, Christos Volos, Sajad Jafari, Xiong Wang

22	A Gaussian Mixture Model Based Cost Function for Parameter Estimation of Chaotic Biological Systems	Communications in Nonlinear Science and Numerical Simulation Q1 3.181	Yasser Shekofteh, Sajad Jafari, Julien Clinton Sprott, S. Mohammad Reza Hashemi Golpayegani, Farshad Almasganj
23	A New Cost Function for Parameter Estimation of Chaotic Systems Using Return Maps as Fingerprints	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, Julien. C. Sprott, Viet-Thanh Pham, S. Mohammad Reza Hashemi Golpayegani, Amir Homayoun Jafari
24	Is that really hidden? The presence of complex fixed-points in chaotic flows with no equilibria	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Sajad Jafari, Christos Volos, Xiong Wang, S. Mohammad Reza Hashemi Golpayegani
25	A novel no-equilibrium chaotic system with multi-wing butterfly attractors	International Journal of Bifurcation and Chaos Q1 1.501	Fadhil Rahma Tahir, Sajad Jafari, Viet-Thanh Pham, Christos Volos, Xiong Wang
26	Hidden hyperchaotic attractor in a novel simple memristive neural network	Optoelectronics and Advanced Materials, Rapid Communications Q3 0.386	Viet-Thanh Pham, Christos Volos, Sajad Jafari, Xiong Wang, Sundarapandian Vaidyanathan
27	A Novel Multiuser Detector Based on Restricted Search Space and Depth-First Tree Search Method in DS/CDMA Communication Systems	Wireless Personal Communications Q3 1.200	Abdulhamid Zahedi, Sahbasadat Rajamand, Sajad Jafari, Mohammadreza Rajati
28	Multiscroll Chaotic Sea Obtained from a Simple 3D System Without Equilibrium	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, Viet-Thanh Pham, Tomasz Kapitaniak
29	Recent New Examples of Hidden Attractors	European Physical Journal-Special Topics Q2 1.947	Sajad Jafari, J. C. Sprott, Fahimeh Nazarimehr
30	Synchronization and circuit design of a chaotic system with coexisting hidden attractors	European Physical Journal-Special Topics Q2 1.947	Mohammad Shahzad, Viet-Thanh Pham, M. Ayaz Ahmad, Sajad Jafari, Fatemeh Hadaeghi
31	Hidden attractors in a chaotic system with an exponential nonlinear term	European Physical Journal-Special Topics Q2 1.947	Viet-Thanh Pham, Sundarapandian Vaidyanathan, Christos Volos, Sajad Jafari
32	Artificial neural network based modeling of brain response to flicker light	Nonlinear Dynamics Q1 4.339	Razieh Falahian, Maryam Mehdizadeh Dastjerdi, Malihe Molaie, Sajad Jafari, Shahriar Gharibzadeh
33	Erratum to: "Simple chaotic flows with a line equilibrium" [Chaos, Solitons and Fractals 57 (2013) 79–84]	Chaos, Solitons & Fractals Q2 2.213	Sajad Jafari, J. C. Sprott
34	Limitation of Perpetual Points for confirming conservation in dynamical systems	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, Fahimeh Nazarimehr, J. C. Sprott, Seyed Mohammad Reza Hashemi Golpayegani
35	A chaotic system with a single unstable node	Physics Letters A Q2 1.863	J. C. Sprott, Sajad Jafari, Viet-Thanh Pham, Zahra Sadat Hosseini
36	Layla and Majnun: A Complex Love Story	Nonlinear Dynamics Q1 4.339	Sajad Jafari, Julien C. Sprott, S. Mohammad Reza Hashemi Golpayegani
37	The relationship between chaotic maps and some chaotic systems with hidden attractors	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, Viet-Thanh Pham, S. Mohammad Reza Hashemi Golpayegani, Motahareh Moghtadaei, Sifeu Takougang Kingni
38	A novel memristive neural network with hidden attractors and its circuitry implementation	Science China-Technological Sciences Q1 1.938	Viet-Thanh Pham, Sajad Jafari, Sundarapandian Vaidyanathan, Christos Volos, Xiong Wang
39	A chaotic system with different shapes of equilibria	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Sajad Jafari, Xiong Wang, Jun Ma
40	NARX Prediction of Some Rare Chaotic Flows: Recurrent Fuzzy Functions Approach	Physics Letters A Q2 1.863	Sobhan Goudarzi, Sajad Jafari, Mohammad Hassan Moradi, J. C. Sprott

41	A no-equilibrium hyperchaotic system with a cubic nonlinear term	Optik - International Journal for Light and Electron Optics Q2 1.191	Viet-Thanh Pham, Sundarapandian Vaidyanathan, Christos Volos, Sajad Jafari, Sifeu Takougang Kingni
42	Three-dimensional chaotic autonomous system with a circular equilibrium: Analysis, circuit implementation and its fractional-order form	Circuits, Systems and Signal Processing Q2 1.998	Sifeu Takougang Kingni, Viet-Thanh Pham, Sajad Jafari, Guy Richard Kol, Paul Wofo
43	A novel memristive time-delay chaotic system without equilibrium points	European Physical Journal Special Topics Q2 1.947	Viet-Thanh Pham, Sundarapandian Vaidyanathan, Christos Volos, Sajad Jafari, Nikolay Vladimirovich Kuznetsov, Thang Manh Hoang
44	A simple chaotic flow with a plane of equilibria	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, J. C. Sprott, Maliheh Molaie
45	A chaotic system with equilibria located on the rounded square loop and its circuit implementation	IEEE Transactions on Circuits and Systems II: Express Briefs Q1 2.450	Viet-Thanh Pham, Sajad Jafari, Christos Volos, Aggelos Giakoumis, Sundarapandian Vaidyanathan, Tomasz Kapitaniak
46	Toward a complex system understanding of bipolar disorder: A chaotic model of abnormal circadian activity rhythms in euthymic bipolar disorder	Australian and New Zealand Journal of Psychiatry Q1 5.084	Fatemeh Hadaeghi, Seyed Mohammad Reza Hashemi Golpayegani, Sajad Jafari, Greg Murray
47	Can Lionel Messi's brain slow down time passing?	Chronobiology International Q2 2.643	Sajad Jafari, Leslie Samuel Smith
48	A chaotic system with different families of hidden attractors	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Christos Volos, Sajad Jafari, Sundarapandian Vaidyanathan, Tomasz Kapitaniak, Xiong Wang
49	Hidden Attractors in dynamical systems	Physics Reports Q1 20.099	Dawid Dudkowski, Sajad Jafari, Tomasz Kapitaniak, Nikolay V. Kuznetsov, Gennady A. Leonov, Awadhesh Prasad
50	A chaotic system with infinite equilibria located on a piecewise linear curve	Optik - International Journal for Light and Electron Optics Q2 1.191	Viet Thanh Pham, Sajad Jafari, Christos Volos, Sundarapandian Vaidyanathan, Tomasz Kapitaniak
51	Simple chaotic 3D flows with surfaces of equilibria	Nonlinear Dynamics Q1 4.339	Sajad Jafari, J. C. Sprott, Viet-Thanh Pham, Christos Volos, Chunbiao Li
52	Simple chaotic flows with a curve of equilibria	International Journal of Bifurcation and Chaos Q1 1.501	Kosar Barati, Sajad Jafari, Julien C. Sprott, Viet-Thanh Pham
53	Constructing and analysing of a unique three-dimensional chaotic autonomous system exhibiting three families of hidden attractors	Mathematics and Computers in Simulation Q2 1.476	Sifeu Takougang Kingni, Sajad Jafari, Viet-Thanh Pham, Paul Wofo
54	Using chaotic artificial neural networks to model memory in the brain	Communications in Nonlinear Science and Numerical Simulation Q1 3.181	Zainab Aram, Sajad Jafari, Jun Ma, Julien C. Sprott, Sareh Zendehtrouh, Viet-Thanh Pham
55	Constructing a chaotic system with an infinite number of equilibrium points	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Sajad Jafari, Tomasz Kapitaniak
56	Parameter Identification of a Chaotic Circuit with a Hidden Attractor Using Krill Herd Optimization	International Journal of Bifurcation and Chaos Q1 1.501	Shirin Panahi, Sajad Jafari, Viet-Thanh Pham, Sifeu Takougang Kingni, Abdulhamid Zahedi, Seyed Hassan Sedighy
57	A gallery of chaotic systems with an infinite number of equilibrium points	Chaos, Solitons & Fractals Q2 2.213	Viet-Thanh Pham, Sajad Jafari, Christos Volos, Tomasz Kapitaniak
58	A simple chaotic circuit with a light-emitting diode	Optoelectronics and Advanced Materials,	Viet Thanh Pham, Christos Volos, Sajad Jafari, Xiong

		Rapid Communications Q3 0.386	Wang, Tomasz Kapitaniak
59	Coexistence of hidden chaotic attractors in a novel no-equilibrium system	Nonlinear Dynamics Q1 4.339	Viet Thanh Pham, Christos Volos, Sajad Jafari, Tomasz Kapitaniak
60	A novel chaotic system with heart-shaped equilibrium and its circuital implementation	Optik - International Journal for Light and Electron Optics Q2 1.191	Viet-Thanh Pham, Sajad Jafari, Christos Volos,
61	A chaotic system with rounded square equilibrium and with no-equilibrium	Optik - International Journal for Light and Electron Optics Q2 1.191	Viet-Thanh Pham, Sajad Jafari, Christos Volos, Tomas Gotthans, Xiong Wang, Duy Vo Hoang
62	Critical slowing down as an early warning of transitions in episodes of bipolar disorder: a simulation study based on a computational model of circadian activity rhythms	Chronobiology International Q2 2.643	Atiyeh Bayani, Fatemeh Hadaeghi, Sajad Jafari, Greg Murray
63	Categorizing chaotic flows from the viewpoint of fixed points and perpetual points	International Journal of Bifurcation and Chaos Q1 1.501	Fahimeh Nazarimehr, Sajad Jafari, Seyed Mohammad Reza Hashemi Golpayegani, Julien. C. Sprott
64	Can Lyapunov exponent predict critical transitions in biological systems?	Nonlinear Dynamics Q1 4.339	Fahimeh Nazarimehr, Sajad Jafari, Seyed Mohammad Reza Hashemi Golpayegani, J. C. Sprott
65	Are perpetual points sufficient for locating hidden attractors?	International Journal of Bifurcation and Chaos Q1 1.501	Fahimeh Nazarimehr, Batool Saedi, Sajad Jafari, Julien. C. Sprott
66	Generating a chaotic system with one stable equilibrium	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Sajad Jafari, Tomasz Kapitaniak, Christos Volos, Sifeu Takougang Kingni
67	Chameleon: the most hidden chaotic flow	Nonlinear Dynamics Q1 4.339	Mohammad Ali Jafari, Ezzedine Mliki, Akif Akgul, Viet-Thanh Pham, Sifeu Takougang Kingni, Xiong Wang, Sajad Jafari
68	*Dynamics, FPGA realization and application of a chaotic system with an infinite number of equilibrium points	Nonlinear Dynamics Q1 4.339	Esteban Tlelo-Cuautle, Luis Gerardo de la Fraga, Viet-Thanh Pham, Christos Volos, Sajad Jafari, Antonio de Jesus Quintas-Valles
69	Megastability: Coexistence of a countable infinity of nested attractors in a periodically-forced oscillator with spatially-periodic damping	European Physical Journal -Special Topics Q2 1.947	Julien C. Sprott, Sajad Jafari, Abdul Jalil M. Khalaf, Tomasz Kapitaniak
70	A chaotic system with an infinite number of equilibrium points located on a line and on a hyperbola and its fractional-order form	Chaos, Solitons & Fractals Q2 2.213	Sifeu Takougang Kingni, Viet-Thanh Pham, Sajad Jafari, Paul Wofo
71	A simple three-dimensional fractional-order chaotic system without equilibrium: Dynamics, circuitry implementation, chaos control and synchronization	AEU - International Journal of Electronics and Communications Q2 2.115	Viet-Thanh Pham, Sifeu Takougang Kingni, Christos Volos, Sajad Jafari, Tomasz Kapitaniak
72	From Wang-Chen system with only one stable equilibrium to a new chaotic system without equilibrium	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Xiong Wang, Sajad Jafari, Christos Volos, Tomasz Kapitaniak
73	Dynamic analysis and electronic circuit implementation of a novel 3D autonomous system without linear terms	Communications in Nonlinear Science and Numerical Simulation Q1 3.181	Jacques Kengne, Sajad Jafari, Zeric T. Njitacke, Mahdi Yousefi Azar Khanian, André Cheukem
74	Chaos-based application of a novel no-equilibrium chaotic system with coexisting attractors	Nonlinear Dynamics Q1 4.339	Zhen Wang, Akif Akgul, Viet-Thanh Pham, Sajad Jafari
75	Dynamics and circuit realization of a no-equilibrium chaotic system with a boostable variable	AEU - International Journal of Electronics and Communications Q2 2.115	Viet-Thanh Phama, Akif Akgul, Christos Volos, Sajad Jafari, Tomasz Kapitaniak

76	Robust finite-time synchronization of a class of chaotic systems via adaptive global sliding mode control	Journal of Vibration and Control Q1 2.197	Xiaojuan Xi, Saleh Mobayen, Haipeng Ren, Sajad Jafari
77	A New Chaotic System With Stable Equilibrium: From Theoretical Model to Circuit Implementation	IEEE Access Q1 3.55	Xiong Wang, Viet-Thanh Pham, Sajad Jafari, Christos Volos, Jesus Manuel Munoz-Pacheco, Esteban Tlelo-Cuautle
78	Different families of hidden attractors in a new chaotic system with variable equilibrium	International Journal of Bifurcation and Chaos Q1 1.501	Viet-Thanh Pham, Sajad Jafari, Christos Volos, Tomasz Kapitaniak
79	Bistable hidden attractors in a novel chaotic system with hyperbolic sine equilibrium	Circuits, Systems and Signal Processing Q2 1.998	Viet Thanh Pham, Christos Volos, Sifeu Takougang Kingni, Tomasz Kapitaniak, Sajad Jafari
80	Chaotic chameleon: Dynamic analyses, circuit implementation, FPGA design, and fractional-order form with basic analyses	Chaos, Solitons & Fractals Q2 2.213	Karthekeyan Rajagopal, Akif Akgul, Sajad Jafari, Anitha Karthekeyan, Ismail Koyuncu
81	Dynamics and circuit of a chaotic system with a curve of equilibrium points	International Journal of Electronics Q3 0.939	Viet Thanh Pham, Christos Volos, Tomasz Kapitaniak, Sajad Jafari, Xiong Wang
82	Investigation of seasonal and latitudinal effects on the expression of clock genes in <i>Drosophila</i>	International Journal of Bifurcation and Chaos Q1 1.501	Seyede Sanaz Hosseini, Fahimeh Nazarimehr, Sajad Jafari
83	A new chaotic attractor around a pre-located ring	International Journal of Bifurcation and Chaos Q1 1.501	Zhen Wang, Zhe Xu, Ezzedine Mliki, Akif Akgul, Viet-Thanh Pham, Sajad Jafari
84	Time delayed chameleon: Analysis, synchronization and FPGA implementation	Pramana - Journal of Physics Q3 0.699	Karthekeyan Rajagopal, Sajad Jafari and Guessas Laarem
85	A Novel Cubic-Equilibrium Chaotic System with Coexisting Hidden Attractors: Analysis, and Circuit Implementation	Journal of Circuits Systems and Computers Q3 0.595	Viet-Thanh Pham, Christos Volos, Sajad Jafari, Tomasz Kapitaniak
86	Fractional order Synchronous Reluctance motor: Analysis, Chaos Control and FPGA implementation	Asian Journal of Control Q2 1.528	Karthekeyan Rajagopal, Fahimeh Nazarimehr, Anitha Karthekeyan, Ashokkumar Srinivasan, Sajad Jafari
87	A Novel Approach to Numerical Modeling of Metabolic System: Investigation of Chaotic Behavior in Diabetes Mellitus	Complexity Q1 1.829	Payam Sadeghi Shabestari, Karthekeyan Rajagopal, Bahareh Safarjali, Sajad Jafari, Prakash Duraisamy
88	A new transiently chaotic flow with an ellipsoid equilibria	Pramana - Journal of Physics Q3 0.699	Shirin Panahi, Zainab Aram, Sajad Jafari, Viet-Thanh Pham, Christos Volos, Karthekeyan Rajagopal
89	Modeling of epilepsy based on chaotic artificial neural network	Chaos, Solitons & Fractals Q2 2.213	Shirin Panahi, Zainab Aram, Sajad Jafari, Jun Ma, Julien C. Sprott
90	A chaotic memcapacitor oscillator with two unstable equilibriums and its fractional form with engineering applications	Nonlinear Dynamics Q1 4.339	Karthekeyan Rajagopal, Akif Akgul, Sajad Jafari, Burak Aricioglu
91	Hyperchaotic memcapacitor oscillator with infinite equilibria and coexisting attractors	Circuits, Systems and Signal Processing Q2 1.998	Karthekeyan Rajagopal, Sajad Jafari, Anitha Karthekeyan, Ashokkumar Srinivasan, Biniyam Ayele
92	Investigation of bifurcations in the process equation	International Journal of Bifurcation and Chaos Q1 1.501	Fahimeh Nazarimehr, Sajad Jafari, Seyed Mohammad Reza Hashemi Golpayegani, Louis H. Kauffman
93	Analysis, synchronization and circuit design of a new highly nonlinear chaotic system	International Journal of Systems Science Q2 2.185	Saleh Mobayen, Sifeu Takougang Kingni, Viet-Thanh Pham, Fahimeh Nazarimehr, Sajad Jafari
94	A chaotic jerk system with non-hyperbolic equilibrium: Dynamics, effect of time delay and circuit realization	Pramana - Journal of Physics Q3 0.699	Karthekeyan Rajagopal, Viet-Thanh Pham, Fadhil Rahma Tahir, Akif Akgul, Hamid Reza Abdolmohammadi, Sajad Jafari
95	New Family of 4-D Hyperchaotic and Chaotic Systems with Quadric Surfaces of Equilibria	Chaos, Solitons & Fractals Q2 2.213	Jay Prakash Singh, Binoy Krishna Roy, Sajad Jafari
96	Editorial: Advanced Topics in Modeling, Bifurcation Analysis, and Control Theory of Complex Systems	Complexity Q1	

		1.829	
97	A Novel Fractional-Order Chaotic System with Specific Topology: From Proposing to FPGA Implementation	European Physical Journal- Special Topics Q2 1.947	Atiyeh Bayani, Mohammad Ali Jafari, Karthikeyan Rajagopal, Haibo Jiang, Sajad Jafari
98	A Tribute to J. C. Sprott	International Journal of Bifurcation and Chaos Q1 1.501	Fahimeh Nazarimehr, Sajad Jafari, Guanrong Chen, Tomasz Kapitaniak, Nikolay V. Kuznetsov, Gennady A. Leonov, Chunbiao Li, Zhouchao Wei
99	Fuzzy predictive controller for chaotic flows based on continuous signals	Chaos, Solitons & Fractals Q2 2.213	Fahimeh Nazarimehr, Javad Sheikh, Mohammad Mahdi Ahmadi, Viet-Thanh Pham, Sajad Jafari
100	A new 4D chaotic system with hidden attractor and its engineering applications: analog circuit design and FPGA implementation	Pramana – Journal of Physics Q3 0.699	Hamid Reza Abdolmohammadi, Abdul Jalil M. Khalaf, Shirin Panahi, Karthikeyan Rajagopal, Viet-Thanh Pham, Sajad Jafari
101	A new chaotic flow with hidden attractor: the first hyperjerk system with no equilibrium	Zeitschrift für Naturforschung A (ZNA) Q3 1.414	Shuili Ren, Shirin Panahi, Karthikeyan Rajagopal, Akif Akgul, Viet-Thanh Pham, Sajad Jafari
102	Defects formation and spiral waves in a network of neurons in presence of electromagnetic induction	Cognitive Neurodynamics Q3 2.00	Zahra Rostami, Sajad Jafari
103	A new nonlinear oscillator with infinite number of coexisting hidden and self-excited attractors	Chinese Physics B Q3 1.321	YanxiaTang, Abdul Jalil M. Khalaf, Karthikeyan Rajagopal, Viet Thanh Pham, Sajad Jafari, YeTian
104	Fractal based analysis of the influence of auditory stimuli on eye movements	Fractal Q2 2.213	Hamidreza Namazi, Asieh Daneshi, Hamed Azarnoush, Sajad Jafari, Farzad Towhidkhalah
105	Extreme multi-stability: When imperfection changes quality	Chaos, Solitons & Fractals Q2 2.213	Sajad Jafari, Atefeh Ahmadi, Shirin Panahi, Karthikeyan Rajagopal
106	A flexible chaotic system with adjustable amplitude, largest Lyapunov exponent, and local Kaplan-Yorke dimension and its usage in engineering applications	Nonlinear Dynamics Q1 4.339	Heng Chen, Atiyeh Bayani, Akif Akgul, Mohammad-Ali Jafari, Viet-Thanh Pham, Xiong Wang, Sajad Jafari
107	A simple snap oscillator with co-existing attractors, its time delayed form, circuit implementation and communication designs	Zeitschrift für Naturforschung A (ZNA) Q3 1.414	Karthikeyan Rajagopal, Sajad Jafari, Akif Akgul, Anitha Karthikeyan, Serdar Cicek, Yasser Shekofteh
108	A new look to coma from the viewpoint of nonlinear dynamics	Nonlinear Dynamics Q1 4.339	Sara Kamali, Shahriar Gharibzadeh, Sajad Jafari
109	Cost Function based on Hidden Markov Models for Parameter Estimation of Chaotic Systems	Soft Computing Q2 2.367	Yasser Shekofteh, Sajad Jafari, Karthikeyan Rajagopal
110	Complexity based analysis of the difference in speech-evoked Auditory Brainstem Responses (s-ABR) between binaural and monaural listening conditions	Fractal Q2 2.213	Marjan Mozaffarilegha, HamidReza Namazi, Mohsen Ahadi, Sajad Jafari
111	Age-based variations of fractal structure of EEG signal in patients with epilepsy	Fractal Q2 2.213	Hamidreza Namazi, Sajad Jafari
112	Imperfect Chimeras in a Ring of Four-Dimensional Simplified Lorenz Systems	Chaos, Solitons & Fractals Q2 2.213	Fatemeh Parastesh, Sajad Jafari, Hamed Azarnoush, Boshra Hatef, Anastasios Bountis
113	A Simple Chaotic Model of Passive Dynamic Walking	Nonlinear Dynamics Q1 4.339	Saeed Montazeri Moghadam, Maryam Sadeghi Talarp oshiti, Ali Niaty, Farzad Towhidkhalah, Sajad Jafari
114	Modified jerk system with self-exciting and hidden flows and the effect of time delays on existence of multi-stability	Nonlinear Dynamics Q1 4.339	Karthikeyan Rajagopal, Sajad Jafari, Akif Akgul, Anitha Karthikeyan
115	A new hidden chaotic attractor with extreme multi-stability	AEU - International Journal of Electronics and Communications Q2 2.115	Sajad Jafari, Atefeh Ahmadi, Abdul Jalil M. Khalaf, Hamid Reza Abdolmohammadi, Viet-Thanh Pham, Fawaz E. Alsaadi
116	Investigation of cortical signal propagation and the resulting spatiotemporal patterns in memristor based neuronal network	Complexity Q1 1.829	Ke Ding, Zahra Rostami, Sajad Jafari, Boshra Hatef
117	CAMO: Self-excited and hidden chaotic flows	International Journal of Bifurcation and Chaos Q1 1.501	Karthikeyan Rajagopal, Fahimeh Nazarimehr, Anitha Karthikeyan, Ashokkumar Srinivasan, Sajad Jafari

118	Fractional and non-fractional chaotic amphibian attractors with self excited-hidden properties: Numerical dynamics, circuit realization and FPGA-based applications	European Physical Journal-Special Topics Q2 1.947	Karthikeyan Rajagopal, Fahimeh Nazarimehr, Akif Akgul, Sajad Jafari, Anitha Karthikeyan.
119	A new four-dimensional system containing chaotic or hyper-chaotic attractors with no equilibrium, a line of equilibria and unstable equilibria	Chaos, Solitons & Fractals Q2 2.213	Fahimeh Nazarimehr, Karthikeyan Rajagopal, Jacques Kengne, Sajad Jafari, Viet-Thanh Pham
120	A novel class of chaotic flows with infinite equilibriums and their application in chaos-based communication design using DCSK	Zeitschrift für Naturforschung A (ZNA) Q3 1.414	Karthikeyan Rajagopal, Serdar Çiçek, Abdul Jalil M. Khalaf, Viet-Thanh Pham, Sajad Jafari, Anitha Karthikeyan, Prakash Duraisamy
121	A modified multi-stable chaotic oscillator	International Journal of Bifurcation and Chaos Q1 1.501	Zhouchao Wei, Viet-Thanh Pham, Abdul Jalil M. Khalaf, Jacques Kengne, Sajad Jafari
122	A New Chaotic Model for Glucose-Insulin Regulatory System	Chaos, Solitons & Fractals Q2 2.213	Payam Sadeghi Shabestari, Shirin Panahi, Boshra Hatef, Sajad Jafari, Julien C. Sprott
123	Complexity based analysis of the difference between normal subjects and subjects with stuttering in speech evoked auditory brainstem response	Journal of Medical and Biological Engineering Q3 1.211	Marjan Mozaffarilegha, Hamidreza Namazi, Ali Akbar Tahaei, Sajad Jafari
124	Twin birds inside and outside the cage	Chaos, Solitons & Fractals Q2 2.213	Sajad Jafari, Soroush Dehghan, Guanrong Chen, Sifeu Takougang Kingni, Karthikeyan Rajagopal
125	A novel class of chaotic systems with different shapes of equilibriums and microcontroller-based cost-effective design for digital applications	European Physical Journal Plus Q2 2.240	Karthikeyan Rajagopal, Serdar Çiçek , Viet-Thanh Pham, Sajad Jafari, Anitha Karthikeyan
126	Fractal-based classification of human brain response to living and non-living visual stimuli	Fractal Q2 2.213	Mohammad Ali Ahmadi-Pajouh, Tirdad Seifi Ala, Fatemeh Zamanian, Hamidreza Namazi, Sajad Jafari
127	Elimination of spiral waves in excitable media by magnetic induction	Nonlinear Dynamics Q1 4.339	Zahra Rostami, Sajad Jafari, Matjaz Perc, Mitja Slavinec
128	Taking control of initiated propagating wave in a neuronal network using magnetic radiation	Applied Mathematics and Computation Q1 2.300	Zahra Rostami, Viet-Thanh Pham, Sajad Jafari, Fatemeh Hadaeghi, Jun Ma
129	A 4-D chaotic hyperjerk system with a hidden attractor, adaptive backstepping control and circuit design	Archives of Control Sciences Q3 1.545	Sundarapandian Vaidyanathan, Sajad Jafari, Viet-Thanh Pham, Ahmad Taher Azar, Fawaz E. Alsaadi
130	An exponential jerk system: Circuit realization, fractional order and time delayed form with dynamical analysis and its engineering application	Journal of Circuits Systems, and Computers Q3 0.595	Karthikeyan Rajagopal, Akif Akgul, Sajad Jafari, Anitha Karthikeyan, Unal Cavusoglu, Sezgin Kacar
131	Wavefront-obstacle interactions and the initiation of reentry in excitable media	Physica A Q2 2.132	Zahra Rostami, Karthikeyan Rajagopal, Abdul Jalil M. Khalaf, Sajad Jafari, Matjaz Perc, Mitja Slavinec
132	A new chaotic system with hidden attractor and its engineering applications: analog circuit realization and image encryption	Analog Integrated Circuits and Signal Processing	Ünal Çavuşoğlu, Shirin Panahi, Akif Akgül, Sajad Jafari, Sezgin Kaçar
133	A hyperchaotic memristor oscillator with fuzzy based chaos control and LQR based chaos synchronization	International Journal of Electronics and Communications Q2 2.115	Karthikeyan Rajagopal, Hadi Jahanshahi, Metin Varan, Ihsan Bayir, Viet-Thanh Pham, Sajad Jafari, Anitha Karthikeyan
134	Two Simplest Quadratic Chaotic Maps without Equilibrium	International Journal of Bifurcation and Chaos Q1 1.501	Shirin Panahi, Julien C. Sprott, Sajad Jafari
135	The effect of initial condition type on emergence of chimera state	Chaos, Solitons & Fractals Q2 2.213	Zahra Faghani, Zahra Arab, Fatemeh Parastesh, Sajad Jafari, Matjaz Perc, Mitja Slavinec
136	A chaotic model of migraine headache considering the dynamical transitions of this cyclic disease	Europhysics Letters Q2 1.834	Atiyeh Bayani, Sajad Jafari, Julien Clinton Sprott, Boshra Hatef
137	A fractional system with five terms: analysis, circuit, chaos control and synchronization	International Journal of Electronics Q3 0.939	Xiong Wang, Sifeu Takougang Kingni, Christos Volos, Viet - Thanh Pham, Duy Vo Hoang, Sajad Jafari
138	Multivariate multiscale complexity analysis of self-reproducing chaotic systems	Entropy Q2 2.305	Shaobo He, Chunbiao Li, Kehui Sun, Sajad Jafari

139	A new fractional order chaotic system with different families of hidden and self-excited attractors	Entropy Q2 2.305	Jesus M. Munoz-Pacheco, Ernesto Zambrano-Serrano, Christos Volos, Sajad Jafari, Jacques Kengne, Karthikeyan Rajagopal
140	A Novel Parametrically Controlled Multi-Scroll Chaotic Attractor Along With Electronic Circuit Design	European Physical Journal Plus Q2 2.240	Karthikeyan Rajagopal, Serdar Çiçek, Peiman Naseradinmousavi, Abdul Jalil M. Khalaf, Sajad Jafari, Anitha Karthikeyan
141	Some new dissipative chaotic systems with cyclic symmetry	International Journal of Bifurcation and Chaos Q1 1.501	Karthikeyan Rajagopal, Shirin Panahi, Anitha Karthikeyan, Ahmed Alsaedi, Viet-Thanh Pham, Tasawar Hayat
142	Decoding of wrist movements direction by fractal analysis of Magnetoencephalography (MEG) signal Fractals	Fractal Q2 2.213	Hamidreza Namazi, Sajad Jafari
143	Complexity based analysis of the influence of visual stimulus color on human eye movement	Fractal Q2 2.213	Hedieh Alipour, Hamidreza Namazi, Hamed Azarnoush, Sajad Jafari
144	A new 4-D hyperjerk system with stable equilibrium point, circuit implementation and its synchronisation using an adaptive integrator backstepping control	Chinese Physics B Q3 1.321	Jay Prakash Singh, Viet-Thanh Pham, Tasawar Hayat, Sajad Jafari, Fawaz E. Alsaadi, Binoy Krishna Roy
145	Complete dynamical analysis of a neuron under magnetic flow effect	Chinese Journal of Physics Q3 1.051	Shirin Panahi, Sajad Jafari, Abdul Jalil M. Khalaf, Karthikeyan Rajagopal, Viet-Thanh Pham, Fawaz E. Alsaadi
146	Dynamic system with no equilibrium and its chaos anti-synchronization	Automatika Q4 0.217	Victor Kamdoun Tamba, Viet-Thanh Pham, Duy Vo Hoang, Sajad Jafari, Fawaz E. Alsaadi & Fuad E. Alsaadi
147	A no-equilibrium memristive system with four-wing hyperchaotic attractor	International Journal of Electronics and Communications Q2 2.115	Karthikeyan Rajagopal, Atiyeh Bayani, Abdul Jalil M. Khalaf, Hamidreza Namazi, Sajad Jafari, Viet-Thanh Pham
148	Simple chaotic systems with specific analytical solutions	International Journal of Bifurcation and Chaos Q1 1.501	Zahra Faghani, Fahimeh Nazarimehr, Sajad Jafari, Julien C. Sprott
149	Nonstationary chimeras in a neuronal network	Europhysics Letters Q2 1.834	Zhouchao Wei, Fatemeh Parastesh, Hamed Azarnoush, Sajad Jafari, Dibakar Ghosh, Matjaz Perc, Mitja Slavinec
150	Hidden attractor in a passive motion's model of compass-gait robot	International Journal of Bifurcation and Chaos Q1 1.501	Mahdi Nourian Zavareh, Fahimeh Nazarimehr, Karthikeyan Rajagopal, Sajad Jafari
151	Complete analysis and engineering applications of a megastable nonlinear oscillator	International Journal of Non-Linear Mechanics Q2	Hadi Jahanshahi, Karthikeyan Rajagopal, Akif Akgul, Naeimeh Najafzadeh Sari, Hamidreza Namazi, Sajad Jafari
152	The effect of Epistasis on the performance of genetic algorithms	Journal of Zhejiang University SCIENCE A	Sajad Jafari, Tomasz Kapitaniak, Karthikeyan Rajagopal, Viet-Thanh Pham, Fawaz E. Alsaadi
153	Categories of conservative flows	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, Julien C. Sprott, Soroush Dehghan
154	Dynamics of a neuron exposed to integer order and fractional order discontinuous external magnetic flux	Frontiers of Information Technology & Electronic Engineering	Karthikeyan Rajagopal, Fahimeh Nazarimehr, Anitha Karthikeyan, Ahmed Alsaedi, Tasawar Hayat, Viet-Thanh Pham
155	Estimating of brain development in newborns by fractal analysis of sleep Electroencephalographic (EEG) Signal	Fractal Q2 2.213	Namazi, Hamidreza; Jafari, Sajad
156	Parameter identification of chaotic systems using a modified cost function including static and dynamic information of attractors in the state space	Circuits, Systems & Signal Processing (CSSP)	Yasser Shekofteh, Sajad Jafari, Karthikeyan Rajagopal, Viet-Thanh Pham
157	Complexity-based analysis of the relation between moving visual stimuli and human eye movement	Fractals	Alipour, Hedieh; Namazi, Hamidreza; Azarnoush, Hamed; Jafari, Sajad
158	A New chaotic network model for epilepsy	Applied Mathematics and Computation	Shirin Panahi, Touraj Shirzadian, Mahdi Jalili, Sajad Jafari
159	Nonlinear effects in life sciences	The European Physical Journal Special Topics	Tomasz Kapitaniak, Sajad Jafari
160	Chemical and Electrical Synapse-modulated Dynamical Properties of Coupled Neurons under Magnetic Flow	Applied Mathematics and Computation	Soudeh Mostaghimi, Fahimeh Nazarimehr, Sajad Jafari, Jun Ma
161	Antimonotonicity, bifurcation and multistability in the Vallis model for El Niño	International Journal of Bifurcation and Chaos	Karthikeyan Rajagopal, Sajad Jafari, Viet-Thanh Pham, Zhouchao Wei, Durairaj Premraj, Kathamuthu

		Q1 1.501	Thamilmaran, Anitha Karthikeyan
162	Information based analysis of the relation between visual stimuli and human eye movements	Fluctuation and Noise Letters	Hamidreza Namazi, Asieh Daneshi, Touraj Shirzadian, Hamed Azarnoush, Sajad Jafari
163	Fractal-based analysis of the influence of color tonality on human eye movements	Fractals	Hedieh Alipour, Hamidreza Namazi, Hamed Azarnoush, Sajad Jafari
164	Decoding of simple hand movements by Fractal Analysis of Electromyography (EMG) Signal	Fractals	Hamidreza Namazi, Sajad Jafari
165	Synchronization patterns in a blinking multilayer neuronal network	The European Physical Journal Special Topics	Fatemeh Parastesh, Chao-Yang Chen, Hamed Azarnoush, Sajad Jafari, Boshra Hatef
166	Effects of partial time delays on synchronization patterns in Izhikevich neuronal networks	EPJ B	Mohadeseh Shafiei , Fatemeh Parastesh , Mahdi Jalili , Sajad Jafari , Matjaz Perc, Mitja Slavinec
167	Complexity-based analysis of the relation between fractal visual stimuli and fractal eye movements	Fluctuation and Noise letters	Hedieh Alipour, Avinash Menon, Hamidreza Namazi, Farzad Towhidkhal, Sajad Jafari
168	Synchronizability of two neurons with switching in the coupling	Applied Mathematics and Computation	Fatemeh Parastesh, Hamed Azarnoush, Sajad Jafari, Boshra Hatef, Matjaz Perc, Robert Repnik
169	Analysis, Control and FPGA Implementation of a Fractional Order Modified Shinriki Circuit	Journal of Circuits, Systems, and Computers (JCSC)	Karthikeyan Rajagopal, Fahimeh Nazarimehr, Laarem Guessas, Anitha Karthikeyan, Ashokkumar Srinivasan, Sajad Jafari
170	Dynamical analysis of a new multistable chaotic system with hidden attractor: Antimonotonicity, coexisting multiple attractors, and offset boosting	Physics Letters A	Atiyeh Bayani, Karthikeyan Rajagopal, Abdul Jalil M. Khalaf, Sajad Jafari ,G. D. Leutcho , J. Kengne
171	Simulation and experimental implementation of a line-equilibrium system without linear term	Chaos, Solitons & Fractals Q2 2.213	Viet-Thanh Pham, Sajad Jafari, Christos Volos, Luigi Fortuna
172	Chaos in a simple snap system with only one nonlinearity	Archives of Control Sciences	Viet-Thanh Pham, Sundarapandian Vaidyanathan, Christos Volos, Sajad Jafari, Fawaz E. Alsaadi, Fuad E. Alsaadi
173	Chaotic dynamics of a simple Wein bridge oscillator with fractional order memristor	Radioengineering Journal	Karthikeyan Rajagopal, Chunbiao Li, Fahimeh Nazarimehr, Anitha Karthikeyan, Prakash Duraisamy, Sajad Jafari
174	Different properties of neuronal networks matter for the emergence of chimera states Comment on "Chimera states in neuronal networks: A review" by Majhi et al	Physics of Life Reviews	Fatemeh Parastesh, Sajad Jafari
175	S-Box Based Image Encryption Application Using a Chaotic System without Equilibrium	Applied Sciences	Xiong Wang, Ünal Çavuşoğlu, Sezgin Kacar, Akif Akgül , Viet-Thanh Pham,Sajad Jafari, Fawaz E. Alsaadi, Xuan Quynh Nguyen
176	Effect of the time delay in chemical synapses on synchronization of multilayer neuronal network with ephaptic inter-layer coupling	The European Physical Journal Special Topics	Mohadeseh Shafiei, Fatemeh Parastesh, Tomasz Kapitaniak, Sajad Jafari
177	Spiral waves in externally excited neuronal network: solvable model with a monotonically differentiable magnetic flux	Chaos	Karthikeyan Rajagopal, Fatemeh Parastesh, Hamed Azarnoush, Boshra Hatef, Sajad Jafari, Vesna Berec
178	Predicting tipping points of dynamical systems during a period-doubling route to chaos	Chaos	Fahimeh Nazarimehr, Sajad Jafari, Seyed Mohammad Reza Hashemi Golpayegani, Matjaz Perc, Clint Sprott
179	Nonlinear Dynamics and Entropy of Complex Systems with Hidden and Self-Excited Attractors	Entropy	Christos Volos, Sajad Jafari, Jacques Kengne, Jesús Manuel Muñoz-Pacheco, Karthikeyan Rajagopal
180	The role of coupling factors on the emergence of synchronization and chimera patterns in network of non-locally coupled pancreatic beta-cells	EPL	Zahra Shahriari, Fatemeh Parastesh, Mahdi Jalili, Vesna Berec, Jun Ma, Sajad Jafari
181	Effect of intra-layer connection on the synchronization of a multi-layer cell network	The European Physical Journal Special Topics	Yeganeh Shaverdi, Shirin Panahi, Tomasz Kapitaniak, Sajad Jafari
182	Chaotic dynamics of a fractional order glucose-insulin regulatory system	Frontiers of Information Technology & Electronic Engineering	Karthikeyan Rajagopal, Atiyeh Bayani, Sajad Jafari, Anitha Karthikeyan, Iqtadar Hussain
183	Traveling patterns in a network of memristor-based oscillators with extreme multistability	The European Physical Journal Special Topics	Fatemeh Parastesh, Sajad Jafari, Hamed Azarnoush
184	Chimera in a Network of Memristor based Hopfield Neural Network	The European Physical Journal Special Topics	Fatemeh Parastesh, Sajad Jafari, Hamed Azarnoush, Boshra Hatef, Hamidreza Namazi, Dawid Dudkowski
185	Fractional Order Simple Chaotic Oscillator with Saturable Reactors and Its Engineering Applications	Information Technology and Control (IF = 0.8)	Karthikeyan Rajagopal, Sajad Jafari, Sezgin Kacar, Anitha Karthikeyan, Akif Akgül
186	Synchronization in a network of chaotic memristive jerk oscillators	The European Physical Journal Special Topics	Shirin Panahi, Sajad Jafari
187	Chaotic Cuttlefish: King of camouflage with self-excited and hidden flows, its fractional-order form and communication designs with fractional form	Discrete & Continuous Dynamical Systems - B	Karthikeyan Rajagopal, Serdar Cicek, Sajad Jafari, Anitha Karthikeyan and Akif Akgül

188	Simplest megastable chaotic oscillator	International Journal of Bifurcation and Chaos Q1 1.501	Sajad Jafari, Karthikeyan Rajagopal, Tasawar Hayat, Ahmed Alsaedi, Viet-Thanh Pham,
189	A new imprisoned strange attractor	International Journal of Bifurcation and Chaos Q1 1.501	Fahimeh Nazarimehr, Viet-Thanh Pham, Karthikeyan Rajagopal, Fawaz E. Alsaadi, Tasawar Hayat, Sajad Jafari
190	Wave propagation in a network of interacting nephrons	Physica A	Khoushak Jalal, Faghani Zahra, Jafari Sajad
191	A New Megastable Oscillator with Rational and Irrational Parameters	International Journal of Bifurcation and Chaos	Zhen Wang, Ibrahim Ismael Hamarash, Payam Sadeghi Shabestari, Sajad Jafari
192	Multistability and coexisting attractors in a new circulant chaotic system	International Journal of Bifurcation and Chaos	Karthikeyan Rajagopal, Akif Akgul, Viet-Thanh Pham, Fawaz E. Alsaadi, Fahimeh Nazarimehr, Sajad Jafari
193	A simple chaotic system with topologically different attractors	IEEE Access	Karthikeyan Rajagopal, Akif Akgul , Irene M. Moroz, Zhouchao Wei, Sajad Jafari , Iqtadar Hussain
194	Analysis, Synchronization and Microcontroller Implementation of a New Quasiperiodically Forced Chaotic Oscillator with Megastability	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	Aggelos Giakoumis, Christos Volos, Abdul Jalil M. Khalaf, Atiyeh Bayani, Ioannis Stouboulos, Karthikeyan Rajagopal, Sajad Jafari
195	A complete investigation of the effect of external force on a 3D megastable oscillator	International Journal of Bifurcation and Chaos	Yongjian Liu, Abdul Jalil M. Khalaf, Tasawar Hayat, Ahmed Alsaedi, Viet-Thanh Pham
196	Introducing a chaotic map with wide range of Long-term memory as a model of patch-clamped ion channels current time series	Chaos, Solitons and Fractals	Alireza Bahramian, Ali Nouri, Golnaz Baghdadi, Shahriar Gharibzadeh, Farzad Towhidkhal, Sajad Jafari
197	Transitions from chimeras to coherence: An analytical approach by means of the coherent stability function	Physical Review E	Sarbendu Rakshit, Zahra Faghani, Fatemeh Parastesh, Shirin Panahi, Sajad Jafari, Dibakar Ghosh, Matjaž Perc
198	A new category of three-dimensional chaotic flows with identical eigenvalues	International Journal of Bifurcation and Chaos	Zahra Faghani, Fahimeh Nazarimehr, Sajad Jafari, Julien C. Sprott
199	Multiscroll chaotic system with sigmoid nonlinearity and its fractional order form with synchronization application	International Journal of Non-Linear Mechanics	Yilmaz Uyaroglu, Karthikeyan Rajagopal, Anitha Karthikeyan, Ali Durdu, Sajad Jafari
200	An exponential jerk system, its fractional order form with dynamical analysis and fractional order based a novel sound steganography application	Soft Computing	Karthikeyan Rajagopal, Akif Akgul, Sajad Jafari, Anitha Karthikeyan, Unal Cavusoglu, Sezgin Kacar
201	Self-excited and hidden attractors in a simple chaotic jerk system and in its time delayed form: Analysis, electronic implementation and synchronization	J. Korean Phys. Soc.	Karthikeyan Rajagopal, Sifeu Takougang Kingni, Guillaume Honoré Kom, Viet-Thanh Pham, Anitha Karthikeyan, Sajad Jafari
202	Suppression of spiral wave turbulence by means of periodic plane waves in two-layer excitable media	Chaos soliton fractals	Zhen Wang, Zahra Rostami, Sajad Jafari, Fawaz E. Alsaadi, Mitja Slavinec, Matjaž Perc
203	A Novel 5D Chaotic System with Extreme Multi-stability and a Line of Equilibrium and Its Engineering Applications: Circuit Design and FPGA Implementation	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	Atefeh Ahmadi, Karthikeyan Rajagopal, Fuad E. Alsaadi, Viet-Thanh Pham, Fawaz E. Alsaadi, Sajad Jafari
204	Chimera state in a two-dimensional network of coupled genetic oscillators	EPL	Yongjian Liu, Abdul Jalil M. Khalaf, Sajad Jafari, Iqtadar Hussain
205	Synchronization in a multiplex network of gene oscillators	Physics Letters A	Abdul Jalil M. Khalaf, Fawaz E. Alsaadi, Fuad E. Alsaadi, Viet-Thanh Pham, Karthikeyan Rajagopal
206	Chimera states in a ring of map-based neurons	Physica A	
207	A chaotic iterative fuzzy modeling of circulating a simple sentence	Scientia Iranica	Nazanin Zandi-Mehran, Fahimeh Nazarimehr, Abdul Jalil M. Khalaf, sajad jafari, Julien. C. Sprott
208	Coexisting attractors in a fractional order hydro turbine governing system and fuzzy PID based chaos control	Asian Journal of Control	Karthikeyan Rajagopal, Hadi Jahanshahi , Sajad Jafari, Riessom Weldegiorgis, Anitha Karthikeyan, Prakash Duraisamy
209	Introducing a nonlinear coupling for Central Pattern Generator (CPG): improvement on robustness by expanding basin of attraction, and performance by decreasing the transient time	Journal of Vibration and Control	Alireza Bahramian, Ali Nouri, Farzad Towhidkhal, Hamed Azarnoush, Sajad Jafari
210	Multistability Control of Space Magnetization in Hyperjerk Oscillator: A Case Study	Journal of Computational and Nonlinear Dynamics	Gervais Dolvis Leutcho, Jacques Kengne, Theophile Fonzin Fozin, K. Srinivasan, N. Zjitacke Tabekoung, Sajad Jafari, Monica Borda
211	The emergence of chimera states in a network of nephrons	Chinese Journal of Physics	Jalal Khoushak, Zahra Faghani, Jakob L. Laugesen, Sajad Jafari
212	Studying the performance of critical slowing down indicators in a biological system with a period-doubling route to chaos	Physica A	Nastaran Navid Moghadam, Fahimeh Nazarimehr, Sajad Jafari
213	Complete dynamical analysis of myocardial cell exposed to magnetic flux	Chinese Journal of Physics	Shirin Panahi, Zahra Rostami, Karthikeyan Rajagopal, Hamidreza Namazi, Sajad Jafari
214	One dimensional map-based neuron model: a phase space interpretation	Chaos, Solitons & Fractals Q2 2.213	Nazanin Zandi-Mehran, Shirin Panahi, Zahra Hosseini, Seyed Mohammad Reza Hashemi Golpayegani, Sajad Jafari

215	A fast technique for calculating master stability function	International Journal of Modern Physics B	Shirin Panahi, Sajad Jafari
216	Is there a relation between synchronization stability and bifurcation type?	International Journal of Bifurcation and Chaos Q1 1.501	Zahra Faghani, Zhen Wang, Fatemeh Parastesh, Sajad Jafari, Matjaz Perc
217	Multivariable coupling and synchronization in complex networks	Applied Mathematics and Computation Q1 2.300	Fahimeh Nazarimehr, Shirin Panahi, Mahdi Jalili, Matjaz Perc, Sajad Jafari
218	Chaotic cuttlesh: king of camouage with self-excited and hidden flows, its fractional-order form and communication designs with fractional form	Discrete & Continuous Dynamical Systems- B	Karthikeyan Rajagopal, Serdar Cicek, , Akif Akgul, Sajad Jafari, and Anitha Karthikeyan
219	Dynamical behavior and network analysis of an extended Hindmarsh-Rose neuron model	Nonlinear Dynamics Q1 4.339	Karthikeyan Rajagopal, Abdul Jalil M. Khalaf, Fatemeh Parastesh, Irene Moroz, Anitha Karthikeyan & Sajad Jafari
220	Controlling Coexisting Attractors of Conditional Symmetry	International Journal of Bifurcation and Chaos Q1 1.501	Tianai Lu, Chunbiao Li, Sajad Jafari, Fuhong Min,
221	Time delayed chemical synapses and synchronization in multilayer neuronal networks with ephaptic inter-layer coupling	Communications in Nonlinear Science and Numerical Simulation	Mohadeseh Shafiei, Sajad Jafari, Fatemeh Parastesh, Tomasz Kapitaniak, Matjaz Perc
222	Investigating bifurcation points of an impact oscillator	Indian Journal of Physics	Sajad Jafari, Fahimeh Nazarimehr, Fawaz E. Alsaadi, Fuad E. Alsaadi, Viet-Thanh Pham
223	A novel mega-stable chaotic circuit	Radioengineering	Viet-Thanh Pham, Dalia Sami Ali, Nadia M.G. Al-Saidi, Karthikeyan Rajagopal, Fawaz E. Alsaadi, Sajad Jafari
224	Process Equation as a Model for the Development of Cells	The European Physical Journal Special Topics	Fahimeh Nazarimehr, S. Sanaz Hosseini, Abdul Jalil M. Khalaf, Sajad Jafari, Julien. C. Sprott
225	New synchronization index of non-identical networks	Discrete Contin. Dyn. Syst. Ser. S.	Shirin panahi, Sajad Jafari
226	A new megastable nonlinear oscillator with infinite attractors	Chaos, Solitons & Fractals	Gervais Dolvis Leutcho, Sajad Jafari, Ibrahim Ismael Hamarash, Jacques Kengne, Z. Njitacke Tabekoueng, Iqtadar Hussain
227	A new oscillator with mega-stability and its Hamilton energy: infinite coexisting hidden and self-excited attractors	Chaos	Gervais Dolvis Leutcho, Abdul Jalil M. Khalaf, Zeric Njitacke Tabekoueng, Theophile Fonzin Fozin , Jacques Kengne, Sajad Jafari, Iqtadar Hussain
228	A Chaotic Jerk System with Different Types of Equilibria and its Application in Communication System	Tehnički vjesnik-Technical Gazette	Karthikeyan RAJAGOPAL, Viet-Thanh PHAM, Serdar CICEK, Sajad JAFARI, Anitha KARTHIKEYAN, Sundaram ARUN
229	Self-excited and hidden attractors in a simple chaotic jerk system and in its time delayed form: Analysis, electronic implementation and synchronization	Journal of Korean Physical Society	Karthikeyan Rajagopal, Sifeu Takougang Kingni, Guillaume Honoré Kom, Viet-Thanh Pham, Anitha Karthikeyan, Sajad Jafari
230	A new three-dimensional chaotic system: Early warning signals of bifurcation points based on entropy	Entropy	Lianyu Chen, Fahimeh Nazarimehr, Sajad Jafari, Esteban Tlelo-Cuautle, Iqtadar Hussain
231	Different synaptic connections evoke different firing patterns in neurons subject to an electromagnetic field", has been accepted for publication in Nonlinear Dynamics	Nonlinear Dynamics Q1	
232	A new multi-stable chaotic hyperjerk system, its special features, circuit realization, control and synchronization.	Archives of Control Sciences Q3	Viet-Thanh Pham , Sundarapandian Vaidyanathan , Christos Volos , Sajad Jafari; Tomasz Kapitaniak
233	Optimum topology and coupling strength for synchronization	Applied Mathematics and Computation	Xiaojian Xi, Shirin Panahi, Viet-Thanh Pham, Zhen Wang, Sajad Jafari, Iqtadar Hussain
234	A New Megastable Chaotic Oscillator with Singularity	The European Physical Journal Special Topics	Zhen Wang, Hamid Reza Abdolmohammadi, Mingshu Chen, Agnieszka Chudzik, Sajad Jafari, Iqtadar Hussain
235	Chimeras in an adaptive neuronal network with burst-timing-dependent plasticity	Neurocomputing	Zhen Wang, Sara Baruni, Fatemeh Parastesh, Sajad Jafari, Dibakar Ghosh, Matjaz Perc, Iqtadar Hussain
236	Firing patterns of an improved Izhikevich neuron model under the effect of electromagnetic induction and noise	Chaos, Solitons and Fractals	Mohadeseh Shafiei Kafraj, Fatemeh Parastesh, Sajad Jafari
237	Special chaotic systems	The European Physical Journal Special Topics	Sajad Jafari, Tomasz Kapitaniak
238	Extended non-stationary chimera region in a network of non-identical coupled Van der Pol's oscillators	The European Physical Journal Special Topics	H. Lu, F. Parastesh Kargar, A. Dabrowski, H. Azarnoush, S. Jafari
239	Hyperchaotic Oscillation in the Deformed Rikitake Two-disc Dynamo System Induced by Memory Effect	Complexity	Yanling Wang, Tengfei Lei, Xin Zhang, Chunbiao Li and Sajad Jafari
240	Wave propagation and spiral wave formation in a Hindmarsh Rose neuron model with fractional order threshold memristor synapse	International Journal of Modern Physics B	Karthikeyan Rajagopal, Anitha Karthikeyan, Sajad Jafari, Fatemeh Parastesh, Christos Volos, Iqtadar Hussain
241	Modification of the Logistic Map Using Fuzzy Numbers with Application to Pseudorandom Number Generation and Image Encryption	Entropy	Lazaros Moysis, Christos Volos, Sajad Jafari, Jesus M. Munoz-Pacheco, Jacques Kengne, Karthikeyan Rajagopal, Ioannis Stouboulos
242	Signal separation in an aggregation of chaotic signals	Chaos, Solitons & Fractals	Nazanin Zandi-Mehran, Sajad Jafari, Seyed Mohammad Reza Hashemi Golpayegani
243	Complete dynamical analysis of a neocortical network mode	Nonlinear Dynamics	Ali Foroutannia, Mahdieh Ghasemi, Fatemeh Parastesh, Sajad Jafari, Matjaz Perc
244	Chaos and coexisting bifurcations in a novel 3D autonomous system	Brazilian Journal of Physics	J. Kengne, H. Abdolmohammadi, V. Foflack Signing, S.

	with a non-hyperbolic fixed point: theoretical analysis and electronic circuit implementation		Jafari, G.H. Kom
245	A Modified Simple Chaotic hyperjerk Circuit: Coexisting Bubbles of Bifurcation and Mixed-Mode Bursting Oscillations	Zeitschrift für Naturforschung A (ZNA)	Gervais Dolvis Leutcho, Jacques Kengne, Alexis Ngoumkam Negou , Theophile Fonzin Fozin, Viet-Thanh Pham, Sajad Jafari
246	Detecting chimeras by eigenvalue decomposition of the bivariate local order parameter		Fatemeh Parastesh, Hamed Azarnoush, Sajad Jafari and Matjaz Perc
247	Synchronization of chaotic jerk systems	International Journal of Modern Physics B	Zhen Wang, Shirin Panahi, Abdul Jalil M. Khalaf, Sajad Jafari, Iqtadar Hussain
248	A Novel Chaotic Hyperjerk Circuit with Bubbles of Bifurcation: Mixed-Mode Bursting Oscillations, Multistability, and Circuit Realization	Physica Scripta	Gervais Dolvis Leutcho, Jacques Kengne, Leandre Kamdjeu Kengne, Akif Akgul, Viet-Thanh Pham, Sajad Jafari
249	Fracmemristor chaotic oscillator with multistable and antimonotonicity properties	Journal of Advanced Research	Haikong Lu, Jiri Petrzela, Tomas Gotthans, Karthikeyan Rajagopal, Sajad Jafari, Iqtadar Hussain
250	Coexisting chaotic attractors in a memristive system and their amplitude control	Pramana	HONGYAN ZANG, ZHENYU GU, TENGFEI LEI, CHUNBIAO LI, SAJAD JAFARI
251	A fractional order model for the novel coronavirus (COVID-19) outbreak	Nonlinear Dynamics	Karthikeyan Rajagopal, Navid Hasanzadeh, Fatemeh Parastesh, Ibrahim Ismael Hamarash, Sajad Jafari, Iqtadar Hussain
252	modified chaotic oscillator with megastability and variable boosting and its synchronization using a better contraction theory-based control than backstepping and nonlinear active control	Pramana	B. Roy, S. Jafari
253	Observation of chimera patterns in a network of symmetric chaotic finance systems	Communications in Theoretical Physics	Biqun Chen, Karthikeyan Rajagopal, Fatemeh Parastesh, Hamed Azarnoush, Sajad Jafari, Iqtadar Hussain
254	Further dynamical analysis of modified Fitzhugh-Nagumo model under the electric field	Nonlinear Dynamics	Bo Yan, Shirin Panahi, Shaobo He, Sajad Jafari
255	A simple guide for plotting a proper bifurcation diagram	International Journal of Bifurcation and Chaos	Ali Jafari, Iqtadar Hussain, Fahimeh Nazarimehr, Seyed Mohammad Reza Hashemi Golpayegani, Sajad Jafari
256	Chimera state in a network of non-locally coupled impact oscillators	Journal of Zhejiang University-SCIENCE A	Jerzy Wojewoda, Karthikeyan Rajagopal, Viet-Thanh Pham, Fatemeh Parastesh, Tomasz Kapitaniak, Sajad Jafari
257	Magnetic induction can control the effect of external electrical stimuli on the spiral wave	Applied Mathematics and Computation	Karthikeyan Rajagopal, Iqtadar Hussain, Zahra Rostami, Chunbiao Li, Viet-Thanh Pham, Sajad Jafari
258	Simplest symmetric chaotic flows: The strange case of asymmetry in Master Stability Function	EPJST	K. Rajagopal, A. Jafari, S. He, F. Parastesh, S. Jafari, I. Hussain
259	A Novel Megastable Hamiltonian System with Infinite Hyperbolic and Nonhyperbolic Equilibria	Complexity	Gervais Dolvis Leutcho, Theophile Fonzin Fozin, Alexis Nguomkam Negou, Zeric Tabekoueng Njitacke, Viet-Thanh Pham, Jacques Kengne, Sajad Jafari