E Campos-Cantón

List of Publications by Year
in descending order

75 papers	1,064 citations	361413 20 h-index	454955 30 g-index
77 all docs	77 docs citations	77 times ranked	566 citing authors

#	Article	IF	Citations
1	Deterministic coherence resonance analysis of coupled chaotic oscillators: fractional approach. Chaos, Solitons and Fractals, 2022, 157, 111919.	5.1	4
2	Multistable systems with nested hidden and self-excited double scroll attractors. European Physical Journal: Special Topics, 2022, 231, 351-357.	2.6	5
3	Dynamics of Multimodal Families of m-Modal Maps. Complexity, 2022, 2022, 1-13.	1.6	0
4	Comparative Analysis of Chaotic Features of Maps Without Fixed Points. , 2022, , 151-176.		1
5	Generation of Dynamical S-Boxes via Lag Time Chaotic Series for Cryptosystems. , 2022, , 61-83.		1
6	A Monoparametric Family of Piecewise Linear Systems to Generate Scroll Attractors via Path-Connected Set of Polynomials. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150034.	1.7	5
7	Emergence of Hidden Attractors through the Rupture of Heteroclinic-Like Orbits of Switched Systems with Self-Excited Attractors. Complexity, 2021, 2021, 1-24.	1.6	4
8	Emergence of synchronous behavior in a network with chaotic multistable systems. Chaos, Solitons and Fractals, 2021, 151, 111263.	5.1	10
9	A two-directional grid multiscroll hidden attractor based on piecewise linear system and its application in pseudo-random bit generator. The Integration VLSI Journal, 2021, 81, 34-42.	2.1	20
10	Chaotic Features of a Class of Discrete Maps without Fixed Points. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	16
11	Toward Physical Implementation of Multi-Scroll Attractors. , 2021, , .		0
12	Derivation of a continuous time dynamic planar system with two unstable foci from a three-dimensional chaotic piecewise linear system. Chaos, 2020, 30, 053114.	2.5	4
13	Multistable Systems with Hidden and Self-Excited Scroll Attractors Generated via Piecewise Linear Systems. Complexity, 2020, 2020, 1-12.	1.6	14
14	Emergence of a square chaotic attractor through the collision of heteroclinic orbits. European Physical Journal: Special Topics, 2020, 229, 1351-1360.	2.6	5
15	Hyperchaotic attractors through coupling of systems without equilibria. European Physical Journal: Special Topics, 2020, 229, 1309-1318.	2.6	6
16	Generation of Dynamical S-Boxes for Block Ciphers via Extended Logistic Map. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	54
17	Electronic implementation of a dynamical network with nearly identical hybrid nodes via unstable dissipative systems. Chaos, Solitons and Fractals, 2019, 127, 272-282.	5.1	3
18	Open Challenges on the Stability of Complex Systems: Insights of Nonlinear Phenomena with or without Delay. Complexity, 2019, 2019, 1-2.	1.6	0

#	Article	IF	Citations
19	A Class of Piecewise Linear Systems Without Equilibria With 3-D Grid Multiscroll Chaotic Attractors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1456-1460.	3.0	24
20	Itinerary synchronization between PWL systems coupled with unidirectional links. Communications in Nonlinear Science and Numerical Simulation, 2019, 70, 102-124.	3.3	18
21	On multistability behavior of unstable dissipative systems. Chaos, 2018, 28, 033613.	2.5	37
22	Nonclassical point of view of the Brownian motion generation via fractional deterministic model. International Journal of Modern Physics C, 2018, 29, 1850020.	1.7	17
23	Design of an Electrowetting Biosensor Prototype Controlling Microfluidic Droplet Movement for Isothermal Nucleic Acid Amplification Assays. , 2018, , .		0
24	Analysis of a Class of Complex System without Equilibria via Switched Control Law. IFAC-PapersOnLine, 2018, 51, 526-531.	0.9	2
25	A class of Chua-like systems with only two saddle-foci of different type. IFAC-PapersOnLine, 2018, 51, 156-161.	0.9	4
26	Bistable behavior via switching dissipative systems with unstable dynamics and its electronic design. IFAC-PapersOnLine, 2018, 51, 502-507.	0.9	3
27	Open Problems Related to the Hurwitz Stability of Polynomials Segments. Mathematical Problems in Engineering, 2018, 2018, 1-8.	1.1	7
28	Widening of the basins of attraction of a multistable switching dynamical system with the location of symmetric equilibria. Nonlinear Analysis: Hybrid Systems, 2017, 26, 38-47.	3.5	20
29	Circuit synthesis of an incommensurate fractional order multi-scroll PWL chaotic system. , 2017, , .		2
30	Chaos generation in fractional-order switched systems and its digital implementation. AEU - International Journal of Electronics and Communications, 2017, 79, 43-52.	2.9	46
31	Generation of multi-scroll attractors without equilibria via piecewise linear systems. Chaos, 2017, 27, 053109.	2.5	31
32	Multistability in Piecewise Linear Systems versus Eigenspectra Variation and Round Function. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730031.	1.7	24
33	Generation of chaotic attractors without equilibria via piecewise linear systems. International Journal of Modern Physics C, 2017, 28, 1750008.	1.7	23
34	Stability and Multiscroll Attractors of Control Systems via the Abscissa. Mathematical Problems in Engineering, 2017, 2017, 1-9.	1.1	9
35	New Trends on Modeling, Design, and Control of Chaotic Systems. Mathematical Problems in Engineering, 2017, 2017, 1-3.	1.1	3
36	An upper limit for slow-earthquake zones: self-oscillatory behavior through the Hopf bifurcation mechanism from a spring-block model under lubricated surfaces. Nonlinear Processes in Geophysics, 2017, 24, 419-433.	1.3	0

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37	Opamp-based synthesis of a fractional order switched system. , 2016, , .		0
38	Maximal Unstable Dissipative Interval to Preserve Multi-scroll Attractors via Multi-saturated Functions. Journal of Nonlinear Science, 2016, 26, 1833-1850.	2.1	11
39	Chaotic attractors based on unstable dissipative systems via third-order differential equation. International Journal of Modern Physics C, 2016, 27, 1650008.	1.7	36
40	Analog Electronic Implementation of a Class of Hybrid Dissipative Dynamical System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650018.	1.7	15
41	Strange attractors generated by a fractional order switching system and its topological horseshoe. Nonlinear Dynamics, 2016, 83, 1629-1641.	5.2	39
42	Switched systems based on unstable dissipative systems**This work received financial support from CONACYT through project No. 181002.. IFAC-PapersOnLine, 2015, 48, 116-121.	0.9	2
43	Forced synchronization of autonomous dynamical Boolean networks. Chaos, 2015, 25, 083113.	2.5	6
44	A polynomial approach for generating a monoparametric family of chaotic attractors via switched linear systems. Chaos, Solitons and Fractals, 2015, 71, 100-106.	5.1	28
45	Pseudo-random bit generator based on multi-modal maps. Nonlinear Dynamics, 2015, 82, 2119-2131.	5.2	53
46	Hyperchaotic encryption based on multi-scroll piecewise linear systems. Applied Mathematics and Computation, 2015, 270, 413-424.	2.2	48
47	Pseudo-random bit generator based on lag time series. International Journal of Modern Physics C, 2014, 25, 1350105.	1.7	21
48	An approach to generate deterministic Brownian motion. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2740-2746.	3.3	32
49	ChuaÊ¼s circuit and its characterization as a filter. European Journal of Physics, 2014, 35, 065018.	0.6	1
50	A family of hyperchaotic multi-scroll attractors in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si25.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="bold">R</mml:mi></mml:mrow><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math Applied Mathematics and Computation, 2014, 233, 522-533.	2.2	38
51	Generalized multistable structure via chaotic synchronization and preservation of scrolls. Journal of the Franklin Institute, 2013, 350, 2853-2866.	3.4	15
52	Difference map and its electronic circuit realization. Nonlinear Dynamics, 2013, 74, 819-830.	5.2	25
53	Preservation of a two-wing Lorenz-like attractor with stable equilibria. Journal of the Franklin Institute, 2013, 350, 2867-2880.	3.4	10
54	Multivalued synchronization by Poincarᴇ́© coupling. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2761-2768.	3.3	7

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55	Nonlinear Filtering Preserves Chaotic Synchronization via Master-Slave System. Abstract and Applied Analysis, 2013, 2013, 1-13.	0.7	2
56	Generation of a Reconfigurable Logical Cell Using Evolutionary Computation. Discrete Dynamics in Nature and Society, 2013, 2013, 1-4.	0.9	2
57	Discrete Coupling and Synchronization in the Insulin Release in the Mathematical Model of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi mathvariant="bold-italic">Î²</mml:mi></mml:mrow></mml:math>Cells. Discrete Dynamics in Nature and Society, 2013, 2013, 1-7.	0.9	6
58	Complex Discrete Dynamics and Its Structures in Bioinspired Systems. Discrete Dynamics in Nature and Society, 2013, 2013, 1-2.	0.9	0
59	Grayscale image encryption using a hyperchaotic unstable dissipative system. , 2013, , .		1
60	Attractors generated from switching unstable dissipative systems. Chaos, 2012, 22, 033121.	2.5	48
61	Generation of Multiscroll Attractors by Controlling the Equilibria. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 111-114.	0.4	3
62	A MULTIVIBRATOR CIRCUIT BASED ON CHAOS GENERATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250011.	1.7	9
63	Set-Reset Flip-Flop Circuit with a Simple Output Logic. Circuits, Systems, and Signal Processing, 2012, 31, 753-760.	2.0	9
64	Pseudorandom Sequences in Spread-Spectrum Communications Generated by Cellular Automata. Journal of Applied Research and Technology, 2012, 10, .	0.9	1
65	Signal generator based on a chaotic circuit. Analog Integrated Circuits and Signal Processing, 2011, 66, 309-313.	1.4	4
66	A family of multimodal dynamic maps. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 3457-3462.	3.3	17
67	Multiscroll attractors by switching systems. Chaos, 2010, 20, 013116.	2.5	77
68	A SIMPLE CIRCUIT WITH DYNAMIC LOGIC ARCHITECTURE OF BASIC LOGIC GATES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2547-2551.	1.7	14
69	A simple electronic circuit realization of the tent map. Chaos, Solitons and Fractals, 2009, 42, 12-16.	5.1	24
70	Secure Communication System Using Chaotic Signals. IngenierÃa InvestigaciÃ³n Y TecnologÃa, 2009, 10, 21-27.	0.1	2
71	CHAOTIC DYNAMICS OF A NONLINEAR ELECTRONIC CONVERTER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2981-3000.	1.7	2
72	Filtering by nonlinear systems. Chaos, 2008, 18, 043118.	2.5	1

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73	Forced synchronization of a self-sustained chaotic oscillator. Chaos, 2008, 18, 023136.	2.5	11
74	POINCARÃ‰ PLANES IN NONLINEAR ELECTRONICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 199-208.	1.7	2
75	Multimodal synchronization of chaos. Chaos, 2004, 14, 48-54.	2.5	20