E Campos-CantÃ³n

List of Publications by Year
in descending order

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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	Multiscroll attractors by switching systems. Chaos, 2010, 20, 013116.	2.5	77
2	Generation of Dynamical S-Boxes for Block Ciphers via Extended Logistic Map. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	54
3	Pseudo-random bit generator based on multi-modal maps. Nonlinear Dynamics, 2015, 82, 2119-2131.	5.2	53
4	Attractors generated from switching unstable dissipative systems. Chaos, 2012, 22, 033121.	2.5	48
5	Hyperchaotic encryption based on multi-scroll piecewise linear systems. Applied Mathematics and Computation, 2015, 270, 413-424.	2.2	48
6	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
7	Strange attractors generated by a fractional order switching system and its topological horseshoe. Nonlinear Dynamics, 2016, 83, 1629-1641.	5.2	39
8	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
9	On multistability behavior of unstable dissipative systems. Chaos, 2018, 28, 033613.	2.5	37
10	Chaotic attractors based on unstable dissipative systems via third-order differential equation. International Journal of Modern Physics C, 2016, 27, 1650008.	1.7	36
11	An approach to generate deterministic Brownian motion. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2740-2746.	3.3	32
12	Generation of multi-scroll attractors without equilibria via piecewise linear systems. Chaos, 2017, 27, 053109.	2.5	31
13	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
14	Difference map and its electronic circuit realization. Nonlinear Dynamics, 2013, 74, 819-830.	5.2	25
15	A simple electronic circuit realization of the tent map. Chaos, Solitons and Fractals, 2009, 42, 12-16.	5.1	24
16	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
17	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
18	Generation of chaotic attractors without equilibria via piecewise linear systems. International Journal of Modern Physics C, 2017, 28, 1750008.	1.7	23

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19	Pseudo-random bit generator based on lag time series. International Journal of Modern Physics C, 2014, 25, 1350105.	1.7	21
20	Multimodal synchronization of chaos. Chaos, 2004, 14, 48-54.	2.5	20
21	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
22	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
23	Itinerary synchronization between PWL systems coupled with unidirectional links. Communications in Nonlinear Science and Numerical Simulation, 2019, 70, 102-124.	3.3	18
24	A family of multimodal dynamic maps. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 3457-3462.	3.3	17
25	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
26	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
27	Generalized multistable structure via chaotic synchronization and preservation of scrolls. Journal of the Franklin Institute, 2013, 350, 2853-2866.	3.4	15
28	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
29	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
30	Multistable Systems with Hidden and Self-Excited Scroll Attractors Generated via Piecewise Linear Systems. Complexity, 2020, 2020, 1-12.	1.6	14
31	Forced synchronization of a self-sustained chaotic oscillator. Chaos, 2008, 18, 023136.	2.5	11
32	Maximal Unstable Dissipative Interval to Preserve Multi-scroll Attractors via Multi-saturated Functions. Journal of Nonlinear Science, 2016, 26, 1833-1850.	2.1	11
33	Preservation of a two-wing Lorenz-like attractor with stable equilibria. Journal of the Franklin Institute, 2013, 350, 2867-2880.	3.4	10
34	Emergence of synchronous behavior in a network with chaotic multistable systems. Chaos, Solitons and Fractals, 2021, 151, 111263.	5.1	10
35	A MULTIVIBRATOR CIRCUIT BASED ON CHAOS GENERATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250011.	1.7	9
36	Set-Reset Flip-Flop Circuit with a Simple Output Logic. Circuits, Systems, and Signal Processing, 2012, 31, 753-760.	2.0	9

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37	Stability and Multiscroll Attractors of Control Systems via the Abscissa. Mathematical Problems in Engineering, 2017, 2017, 1-9.	1.1	9
38	Multivalued synchronization by PoincarÃ© coupling. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2761-2768.	3.3	7
39	Open Problems Related to the Hurwitz Stability of Polynomials Segments. Mathematical Problems in Engineering, 2018, 2018, 1-8.	1.1	7
40	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
41	Forced synchronization of autonomous dynamical Boolean networks. Chaos, 2015, 25, 083113.	2.5	6
42	Hyperchaotic attractors through coupling of systems without equilibria. European Physical Journal: Special Topics, 2020, 229, 1309-1318.	2.6	6
43	Emergence of a square chaotic attractor through the collision of heteroclinic orbits. European Physical Journal: Special Topics, 2020, 229, 1351-1360.	2.6	5
44	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
45	Multistable systems with nested hidden and self-excited double scroll attractors. European Physical Journal: Special Topics, 2022, 231, 351-357.	2.6	5
46	Signal generator based on a chaotic circuit. Analog Integrated Circuits and Signal Processing, 2011, 66, 309-313.	1.4	4
47	A class of Chua-like systems with only two saddle-foci of different type. IFAC-PapersOnLine, 2018, 51, 156-161.	0.9	4
48	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
49	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
50	Deterministic coherence resonance analysis of coupled chaotic oscillators: fractional approach. Chaos, Solitons and Fractals, 2022, 157, 111919.	5.1	4
51	Generation of Multiscroll Attractors by Controlling the Equilibria. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 111-114.	0.4	3
52	New Trends on Modeling, Design, and Control of Chaotic Systems. Mathematical Problems in Engineering, 2017, 2017, 1-3.	1.1	3
53	Bistable behavior via switching dissipative systems with unstable dynamics and its electronic design. IFAC-PapersOnLine, 2018, 51, 502-507.	0.9	3
54	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

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55	POINCARÃ‰ PLANES IN NONLINEAR ELECTRONICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 199-208.	1.7	2
56	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
57	Nonlinear Filtering Preserves Chaotic Synchronization via Master-Slave System. Abstract and Applied Analysis, 2013, 2013, 1-13.	0.7	2
58	Generation of a Reconfigurable Logical Cell Using Evolutionary Computation. Discrete Dynamics in Nature and Society, 2013, 2013, 1-4.	0.9	2
59	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
60	Circuit synthesis of an incommensurate fractional order multi-scroll PWL chaotic system. , 2017, , .		2
61	Analysis of a Class of Complex System without Equilibria via Switched Control Law. IFAC-PapersOnLine, 2018, 51, 526-531.	0.9	2
62	Secure Communication System Using Chaotic Signals. IngenierÃa InvestigaciÃ³n Y TecnologÃa, 2009, 10, 21-27.	0.1	2
63	Filtering by nonlinear systems. Chaos, 2008, 18, 043118.	2.5	1
64	Grayscale image encryption using a hyperchaotic unstable dissipative system. , 2013, , .		1
65	ChuaÊ¼s circuit and its characterization as a filter. European Journal of Physics, 2014, 35, 065018.	0.6	1
66	Pseudorandom Sequences in Spread-Spectrum Communications Generated by Cellular Automata. Journal of Applied Research and Technology, 2012, 10, .	0.9	1
67	Comparative Analysis of Chaotic Features of Maps Without Fixed Points. , 2022, , 151-176.		1
68	Generation of Dynamical S-Boxes via Lag Time Chaotic Series for Cryptosystems. , 2022, , 61-83.		1
69	Complex Discrete Dynamics and Its Structures in Bioinspired Systems. Discrete Dynamics in Nature and Society, 2013, 2013, 1-2.	0.9	0
70	Opamp-based synthesis of a fractional order switched system. , 2016, , .		0
71	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
72	Design of an Electrowetting Biosensor Prototype Controlling Microfluidic Droplet Movement for Isothermal Nucleic Acid Amplification Assays. , 2018, , .		0

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73	Open Challenges on the Stability of Complex Systems: Insights of Nonlinear Phenomena with or without Delay. Complexity, 2019, 2019, 1-2.	1.6	0
74	Toward Physical Implementation of Multi-Scroll Attractors. , 2021, , .		0
75	Dynamics of Multimodal Families of m-Modal Maps. Complexity, 2022, 2022, 1-13.	1.6	0