Fabiola Angulo

List of Publications by Year
in descending order

49 papers	476 citations	687363 13 h-index	794594 19 g-index
49 all docs	49 docs citations	49 times ranked	404 citing authors

#	Article	IF	Citations
1	Adaptive Ramp Technique for Controlling Chaos and Subharmonic Oscillations in DC–DC Power Converters. IEEE Transactions on Power Electronics, 2016, 31, 5330-5343.	7.9	40
2	TRANSITION FROM PERIODICITY TO CHAOS IN A PWM-CONTROLLED BUCK CONVERTER WITH ZAD STRATEGY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3245-3264.	1.7	34
3	Simulation of demand growth scenarios in the Colombian electricity market: An integration of system dynamics and dynamic systems. Applied Energy, 2018, 216, 504-520.	10.1	34
4	Nonlinear and nonsmooth dynamics in a DC-DC Buck converter: Two experimental set-ups. Nonlinear Dynamics, 2006, 46, 239-257.	5.2	27
5	Two-parameter discontinuity-induced bifurcation curves in a ZAD-strategy-controlled dc-dc buck converter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2392-2401.	5.4	26
6	Continuation of periodic orbits in a ZAD-strategy controlled buck converter. Chaos, Solitons and Fractals, 2008, 38, 348-363.	5.1	22
7	Control of an anaerobic digester through normal form of fold bifurcation. Journal of Process Control, 2009, 19, 1355-1367.	3.3	22
8	STABILIZING A TWO-CELL DC-DC BUCK CONVERTER BY FIXED POINT INDUCED CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2043-2057.	1.7	19
9	Adaptive Quasi-Sliding Mode Control for Permanent Magnet DC Motor. Mathematical Problems in Engineering, 2013, 2013, 1-12.	1.1	18
10	Control of a DC-DC Buck Converter through Contraction Techniques. Energies, 2018, 11, 3086.	3.1	16
11	Smooth and Filippov Models of Sustainable Development: Bifurcations and Numerical Computations. Differential Equations and Dynamical Systems, 2013, 21, 173-184.	1.0	15
12	Delays in electricity market models. Energy Strategy Reviews, 2017, 16, 24-32.	7.3	15
13	A robust adaptive controller for an anaerobic digester with saturated input: Guarantees for the boundedness and convergence properties. Journal of Process Control, 2012, 22, 1785-1792.	3.3	13
14	A new adaptive controller for bio-reactors with unknown kinetics and biomass concentration: Guarantees for the boundedness and convergence properties. Mathematics and Computers in Simulation, 2015, 112, 1-13.	4.4	13
15	Bifurcations of non-smooth systems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4683-4689.	3.3	12
16	A new approach to state estimation for uncertain linear systems in a moving horizon estimation setting. International Journal of Automation and Computing, 2016, 13, 653-664.	4.5	11
17	EFFECTS OF QUANTIZATION, DELAY AND INTERNAL RESISTANCES IN DIGITALLY ZAD-CONTROLLED BUCK CONVERTER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250245.	1.7	10
18	Influence of period–doubling bifurcations in the appearance of border collisions for a ZAD–strategy–controlled buck converter. International Journal of Circuit Theory and Applications, 2012, 40, 77-91.	2.0	9

#	Article	IF	Citations
19	Performance Analysis of a Peak-Current Mode Control with Compensation Ramp for a Boost-Flyback Power Converter. Journal of Control Science and Engineering, 2016, 2016, 1-14.	1.0	9
20	Bubbling in a power electronic inverter: Onset, development and detection. Chaos, Solitons and Fractals, 2017, 104, 135-152.	5.1	8
21	A new approach to constrained state estimation for discrete–time linear systems with unknown inputs. International Journal of Robust and Nonlinear Control, 2018, 28, 326-341.	3.7	8
22	Slope Compensation Design for a Peak Current-Mode Controlled Boost-Flyback Converter. Energies, 2018, 11, 3000.	3.1	8
23	Control of an anaerobic upflow fixed bed bioreactor. , 2007, , .		7
24	BIFURCATION ANALYSIS ON NONSMOOTH TORUS DESTRUCTION SCENARIO OF DELAYED-PWM SWITCHED BUCK CONVERTER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2193-2212.	1.7	7
25	Analyzing the Hydroelectricity Variability on Power Markets from a System Dynamics and Dynamic Systems Perspective: Seasonality and ENSO Phenomenon. Energies, 2020, 13, 2381.	3.1	7
26	Designing a hysteresis band in a boost flyback converter. Mechanical Systems and Signal Processing, 2021, 147, 107080.	8.0	6
27	DC-DC Zeta Power Converter: Ramp Compensation Control Design and Stability Analysis. Applied Sciences (Switzerland), 2021, 11, 5946.	2.5	6
28	Boost converter control with ZAD for power factor correction based on FPGA. , 2013, , .		5
29	Zero Average Surface Controlled Boost-Flyback Converter. Energies, 2021, 14, 57.	3.1	5
30	Bounding the Output Error in a Buck Power Converter Using Perturbation Theory. Mathematical Problems in Engineering, 2008, 2008, 1-20.	1.1	4
31	A Dynamic Analysis for an Anaerobic Digester: Stability and Bifurcation Branches. Mathematical Problems in Engineering, 2014, 2014, 1-14.	1.1	4
32	Computing and Controlling Basins of Attraction in Multistability Scenarios. Mathematical Problems in Engineering, 2015, 2015, 1-13.	1.1	4
33	Dynamics and Forecast in a Simple Model of Sustainable Development for Rural Populations. Bulletin of Mathematical Biology, 2015, 77, 368-389.	1.9	4
34	Control of a bioreactor using feedback linearization. , 2007, , .		3
35	Adaptive control for state dependent switched systems in Brunovsky form. , 2013, , .		3
36	Performance of a Zero Average Dynamics–controlled buck converter using different pulse–width modulation schemes. International Journal of Circuit Theory and Applications, 2015, 43, 470-488.	2.0	3

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37	Enhancing the Stability of the Switched Systems Using the Saltation Matrix. International Journal of Structural Stability and Dynamics, 2019, 19, 1941004.	2.4	3
38	Simulation and Analysis of Renewable and Nonrenewable Capacity Scenarios under Hybrid Modeling: A Case Study. Mathematics, 2021, 9, 1560.	2.2	3
39	Smooth bifurcations in 3D-parameter space of Digital-PWM Switched Converter. , 2011, , .		2
40	CHARACTERIZATION OF CHAOS SCENARIOS WITH PERIODIC INCLUSIONS FOR ONE CLASS OF PIECEWISE-SMOOTH DYNAMICAL MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2427-2466.	1.7	2
41	Quantization Effects on Period Doubling Route to Chaos in a ZAD-Controlled Buck Converter. Mathematical Problems in Engineering, 2012, 2012, 1-19.	1.1	2
42	CHARACTERIZATION OF CHAOTIC ATTRACTORS INSIDE BAND-MERGING SCENARIO IN A ZAD-CONTROLLED BUCK CONVERTER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230034.	1.7	2
43	A NEW METHODOLOGY TO ANALYZE THE DYNAMIC OF DAILY POWER DEMAND WITH ATTRACTORS INTO THE MANDELBROT SET. Fractals, 2020, 28, 2050003.	3.7	2
44	MANDELBROT-LIKE BIFURCATION STRUCTURES IN CHAOS BAND SCENARIO OF SWITCHED CONVERTER WITH DELAYED-PWM CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 99-119.	1.7	1
45	A New Robust Controller with Applications to Bioreactors. Mathematical Problems in Engineering, 2014, 2014, 1-18.	1.1	1
46	Bubbling phenomenon in a unipolar SPWM inverter. , 2021, , .		1
47	Two-Valued Control for a Second-Order Plant with Additive External Disturbance. Mathematical Problems in Engineering, 2012, 2012, 1-22.	1.1	0
48	A two-valued state feedback control for a second order plant with low switching rate. Journal of Process Control, 2012, 22, 1711-1721.	3.3	0
49	Homotopic Approach for the Simulation of DC-DC Power Electronic Converters. ANZIAM Journal, 0, 60, 25.	0.0	0