

# Fabiola Angulo

## List of Publications by Year in descending order

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papers

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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.	5.4	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.	0.7	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.	5.1	34
4	Nonlinear and nonsmooth dynamics in a DC-DC Buck converter: Two experimental set-ups. Nonlinear Dynamics, 2006, 46, 239-257.	2.7	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.	3.5	26
6	Continuation of periodic orbits in a ZAD-strategy controlled buck converter. Chaos, Solitons and Fractals, 2008, 38, 348-363.	2.5	22
7	Control of an anaerobic digester through normal form of fold bifurcation. Journal of Process Control, 2009, 19, 1355-1367.	1.7	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.	0.7	19
9	Adaptive Quasi-Sliding Mode Control for Permanent Magnet DC Motor. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	18
10	Control of a DC-DC Buck Converter through Contraction Techniques. Energies, 2018, 11, 3086.	1.6	16
11	Smooth and Filippov Models of Sustainable Development: Bifurcations and Numerical Computations. Differential Equations and Dynamical Systems, 2013, 21, 173-184.	0.5	15
12	Delays in electricity market models. Energy Strategy Reviews, 2017, 16, 24-32.	3.3	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.	1.7	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.	2.4	13
15	Bifurcations of non-smooth systems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4683-4689.	1.7	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.	0.7	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.	1.3	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.	0.8	9
20	Bubbling in a power electronic inverter: Onset, development and detection. Chaos, Solitons and Fractals, 2017, 104, 135-152.	2.5	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.	2.1	8
22	Slope Compensation Design for a Peak Current-Mode Controlled Boost-Flyback Converter. Energies, 2018, 11, 3000.	1.6	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.	0.7	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.	1.6	7
26	Designing a hysteresis band in a boost flyback converter. Mechanical Systems and Signal Processing, 2021, 147, 107080.	4.4	6
27	DC-DC Zeta Power Converter: Ramp Compensation Control Design and Stability Analysis. Applied Sciences (Switzerland), 2021, 11, 5946.	1.3	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.	1.6	5
30	Bounding the Output Error in a Buck Power Converter Using Perturbation Theory. Mathematical Problems in Engineering, 2008, 2008, 1-20.	0.6	4
31	A Dynamic Analysis for an Anaerobic Digester: Stability and Bifurcation Branches. Mathematical Problems in Engineering, 2014, 2014, 1-14.	0.6	4
32	Computing and Controlling Basins of Attraction in Multistability Scenarios. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	4
33	Dynamics and Forecast in a Simple Model of Sustainable Development for Rural Populations. Bulletin of Mathematical Biology, 2015, 77, 368-389.	0.9	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.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Enhancing the Stability of the Switched Systems Using the Saltation Matrix. International Journal of Structural Stability and Dynamics, 2019, 19, 1941004.	1.5	3
38	Simulation and Analysis of Renewable and Nonrenewable Capacity Scenarios under Hybrid Modeling: A Case Study. Mathematics, 2021, 9, 1560.	1.1	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.	0.7	2
41	Quantization Effects on Period Doubling Route to Chaos in a ZAD-Controlled Buck Converter. Mathematical Problems in Engineering, 2012, 2012, 1-19.	0.6	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.	0.7	2
43	A NEW METHODOLOGY TO ANALYZE THE DYNAMIC OF DAILY POWER DEMAND WITH ATTRACTORS INTO THE MANDELBROT SET. Fractals, 2020, 28, 2050003.	1.8	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.	0.7	1
45	A New Robust Controller with Applications to Bioreactors. Mathematical Problems in Engineering, 2014, 2014, 1-18.	0.6	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.	0.6	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.	1.7	0
49	Homotopic Approach for the Simulation of DC-DC Power Electronic Converters. ANZIAM Journal, 0, 60, 25.	0.0	0