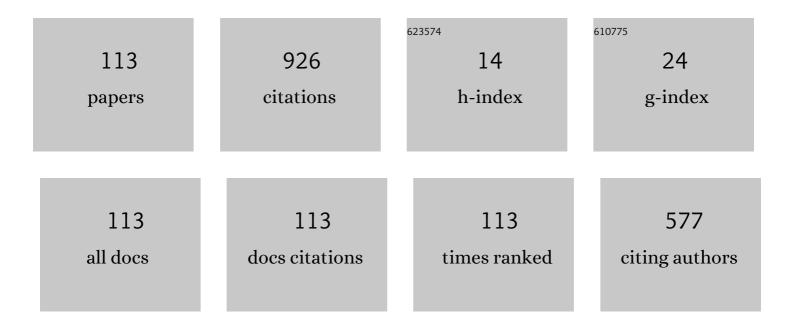
## Federico Bizzarri

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Black-Box Modeling of Back-Up Short-Circuit Tests. IEEE Transactions on Smart Grid, 2024, 15, 1177-1179.	6.2	0
2	Isomorphic Circuit Clustering for Fast and Accurate Electromagnetic Transient Simulations of MMCs. IEEE Transactions on Energy Conversion, 2022, 37, 800-810.	3.7	4
3	Application of Envelope-Following Techniques to the Simulation of Hybrid Power Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1800-1810.	3.5	4
4	Modular Multilevel Converter Impedance Computation Based on Periodic Small-Signal Analysis and Vector Fitting. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1832-1842.	3.5	7
5	Stability Boundaries of Wide-Input-Range COT Buck Converters With Ripple Compensation. IEEE Open Journal of Circuits and Systems, 2022, 3, 15-24.	1.4	1
6	Towards the Co-Simulation of Charge Qubits: A Methodology Grounding on an Equivalent Circuit Representation. IEEE Open Journal of Circuits and Systems, 2021, 2, 548-563.	1.4	2
7	Simulation of Stochastic Electromagnetic Transients in EMTP: A Bug Turned Into a Feature. IEEE Transactions on Power Delivery, 2021, 36, 769-776.	2.9	6
8	A Stability Condition for Constant-On Time Buck Converters Suitable for Automotive Applications. , 2021, , .		3
9	Stability Analysis of MMC/MTDC Systems Considering DC-Link Dynamics. , 2021, , .		5
10	Partitioning-Based Unified Power Flow Algorithm for Mixed MTDC/AC Power Systems. IEEE Transactions on Power Systems, 2021, 36, 3406-3415.	4.6	8
11	Effects of inertia, load damping and dead-bands on frequency histograms and frequency control of power systems. International Journal of Electrical Power and Energy Systems, 2021, 129, 106842.	3.3	14
12	Closed-Form Operational Boundaries for Buck Converters With Constant On-Time Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3331-3335.	2.2	1
13	Load Transient Response Analysis of Constant On-Time DC–DC Converters Using a State-Variables Approach. IEEE Transactions on Power Electronics, 2020, 35, 4489-4499.	5.4	2
14	Simulations of Three-Phase Current Interruptions Through a Black-Box Model of Miniature Circuit Breakers. IEEE Transactions on Power Delivery, 2020, 35, 937-945.	2.9	1
15	Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. IEEE Transactions on Power Systems, 2020, 35, 1284-1293.	4.6	9
16	Nonlinear Fractional-Order Circuits and Systems: Motivation, A Brief Overview, and Some Future Directions. IEEE Open Journal of Circuits and Systems, 2020, 1, 220-232.	1.4	13
17	Guest Editorial Introduction to the Special Section on Nonlinear Fractional-Order Circuits and Systems: Advanced Analysis and Effective Implementation. IEEE Open Journal of Circuits and Systems, 2020, 1, 218-219.	1.4	1
18	Numerical Approach to Compute the Power Flow Solution of Hybrid Generation, Transmission and Distribution Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 936-940.	2.2	8

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#	Article	IF	CITATIONS
19	Application of Envelope-Following Techniques to the Shooting Method. IEEE Open Journal of Circuits and Systems, 2020, 1, 22-33.	1.4	5
20	A Nonlinear Behavioral Ferrite-Core Inductance Model Able to Reproduce Thermal Transients in Switch-Mode Power Supplies. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1255-1263.	3.5	11
21	Discrete Programming Entailing Circulant Quadratic Forms: Refinement of a Heuristic Approach Based on ΔΣ Modulation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 926-930.	2.2	0
22	A reliable and efficient black box model of SF6 medium voltage circuit breakers. International Journal of Electrical Power and Energy Systems, 2020, 119, 105863.	3.3	11
23	A novel sufficient condition to avoid subharmonic oscillations for buck converters with constant onâ€ŧime control. Electronics Letters, 2020, 56, 305-308.	0.5	4
24	Shooting by a Two-Step Galerkin Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 383-390.	3.5	6
25	On the Impact of the Dead-Band of Power System Stabilizers and Frequency Regulation on Power System Stability. IEEE Transactions on Power Systems, 2019, 34, 3977-3979.	4.6	21
26	Efficient Isomorphism Based Simulation of Modular Multilevel Converters. , 2019, , .		5
27	Brushing Up on the Urbanek Black Box Arc Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1675-1683.	3.5	8
28	Simplified Model to Study the Induction Generator Effect of the Subsynchronous Resonance Phenomenon. IEEE Transactions on Energy Conversion, 2018, 33, 889-892.	3.7	23
29	FastSpice circuit partitioning to compute DC operating points preserving Spice -like simulators accuracy. Simulation Modelling Practice and Theory, 2018, 81, 51-63.	2.2	5
30	Circuit Level Model of Miniature Circuit Breakers. IEEE Transactions on Power Delivery, 2018, 33, 2700-2709.	2.9	8
31	Optimal Coefficient Quantization in Optimal-NTF <inline-formula> <tex-math notation="LaTeX"&gt;\$Delta !Sigma \$  </tex-math </inline-formula> Modulators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 542-546.	2.2	2
32	Analytic and Numerical Study of TCSC Devices: Unveiling the Crucial Role of Phase-Locked Loops. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1840-1849.	3.5	32
33	On the Benefit of Adopting Saturable Inductors in Switching-Mode Power-Supplies: A Case Study. , 2018, , .		6
34	The Urbanek Black Box Arc Model in Passive Resonance Circuit Breakers for HVDC Applications. , 2018, ,		4
35	Efficient and Reliable Small-Signal Estimate of Quantization Noise Contribution to Phase Noise in \$Delta Sigma \$ Fractional- \$N\$ PLL. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1494-1503.	3.5	5
36	On the Mechanisms Governing Spurious Tone Injection in Fractional PLLs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1267-1271.	2.2	11

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#	Article	IF	CITATIONS
37	On the multistage design of optimal-NTF ΔΣ modulators — The case of fractional synthesizers. , 2017, , .		Ο
38	PAN and MPanSuite: Simulation Vehicles towards the Analysis and Design of Heterogeneous Mixed Electrical Systems. , 2017, , .		31
39	Constant-time discontinuity map for forward sensitivity analysis to initial conditions: Spurs detection in fractional-N PLL as a case study. , 2017, , .		Ο
40	Periodic small-signal analysis as a tool to build transient stability models of VSC-based devices. , 2016, , .		3
41	The Probe-Insertion Technique for the Detection of Limit Cycles in Power Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 312-321.	3.5	10
42	Necessary and Sufficient Conditions for the Noninvertibility of Fundamental Solution Matrices of a Discontinuous System. SIAM Journal on Applied Dynamical Systems, 2016, 15, 84-105.	0.7	1
43	Monitoring performance and efficiency of photovoltaic parks. Renewable Energy, 2015, 78, 314-321.	4.3	18
44	Optimal design of the noise transfer function of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0022.gif" overflow="scroll"&gt;<mml:mi mathvariant="normal"&gt;Î"<mml:mi mathvariant="normal">Σ</mml:mi> modulators: IIR strategies, FIR strategies, FIR strategies with preassigned poles. Signal Processing, 2015, 114, 117-130.</mml:mi </mml:math 	2.1	8
45	Efficient transient noise analysis of nonâ€periodic mixed analogue/digital circuits. IET Circuits, Devices and Systems, 2015, 9, 73-80.	0.9	4
46	A lumped model of lymphatic systems suitable for large scale simulations. , 2015, , .		3
47	Optimal quantization noise management in wideband fractional-N PLLs. , 2015, , .		6
48	Teaching ΔΣ modulators with PyDSM and scientific Python. , 2015, , .		0
49	Simulation of Real World Circuits: Extending Conventional Analysis Methods to Circuits Described by Heterogeneous Languages. IEEE Circuits and Systems Magazine, 2014, 14, 51-70.	2.6	39
50	Reliable AMS simulation of electrostatic vibration energy harvesters: a case study. , 2014, , .		0
51	Voltage Regulators Design Through Advanced Mixed-Mode Circuit Simulation. IEEE Transactions on Power Electronics, 2014, 29, 4496-4499.	5.4	9
52	Stability analysis of voltage regulators versus different digital control strategies by analog-mixed-signal circuit simulation. , 2014, , .		1
53	Accurate and Efficient PSD Computation in Mixed-Signal Circuits: A Time-Domain Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 905-909.	2.2	10
54	Lyapunov exponents computation for hybrid neurons. Journal of Computational Neuroscience, 2013, 35, 201-212.	0.6	27

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55	Efficiency improvement of partially shaded photovoltaic panels. , 2013, , .		Ο
56	Modeling and estimating yield and efficiency of photovoltaic solar parks. , 2013, , .		7
57	Noise Weighting in the Design of \$DeltaSigma\$ Modulators (With a Psychoacoustic Coder as an) Tj ETQq1 1 0.7	784314 rgl 2.2	3T /Overlock 12
58	Mixed-mode simulations to check stability of an adaptive constant on-time DC-DC converter. , 2013, , .		2
59	Reliable and efficient phase noise simulation of mixed-mode integer-N Phase-Locked Loops. , 2013, , .		5
60	Model of Photovoltaic Power Plants for Performance Analysis and Production Forecast. IEEE Transactions on Sustainable Energy, 2013, 4, 278-285.	5.9	94
61	Output Filter Aware Optimization of the Noise Shaping Properties of ΔΣ Modulators Via Semi-Definite Programming. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2352-2365.	3.5	21
62	Probe Based Shooting Method to Find Stable and Unstable Limit Cycles of Strongly Nonlinear High-\$Q\$ Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1870-1880.	3.5	5
63	Extension of the variational equation to analog/digital circuits: numerical and experimental validation. International Journal of Circuit Theory and Applications, 2013, 41, 743-752.	1.3	23
64	Effects of numerical noise floor on the accuracy of time domain noise analysis in circuit simulators. , 2013, , .		3
65	Time domain probe insertion to find steady state of strongly nonlinear high-Q oscillators. , 2013, , .		2
66	Steady State Simulation of Mixed Analog/Digital Circuits. , 2013, , 243-270.		3
67	Design and simulation of a power management unit in a solar based electric propulsion system. , 2012, ,		5
68	Towards a nearly optimal synthesis of power bridge commands in the driving of AC motors. , 2012, , .		5
69	ADDA: Almost direct drive architecture for solar high power electrical propulsion in new generation spacecrafts. , 2012, , .		5
70	Should ΔΣ modulators used in AC motor drives be adapted to the mechanical load of the motor?. , 2012, , .		3
71	Periodic Small Signal Analysis of a Wide Class of Type-II Phase Locked Loops Through an Exhaustive Variational Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2221-2231.	3.5	24
72	Steady State Computation and Noise Analysis of Analog Mixed Signal Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 541-554.	3.5	44

#	Article	IF	CITATIONS
73	Micro-inverter for solar power generation. , 2012, , .		16
74	Amplitude response of a unilaterally constrained nonlinear micromechanical resonator. Micro and Nano Letters, 2012, 7, 279.	0.6	2
75	Phase Noise Simulation in Analog Mixed Signal Circuits: An Application to Pulse Energy Oscillators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 154-158.	2.2	19
76	Phase noise analysis of a mechanical autonomous impact oscillator with a MEMS resonator. , 2011, , .		8
77	Noise in a phase-quadrature pulsed energy restore oscillator. , 2011, , .		7
78	A heuristic solution to the optimisation of flutter control in compression systems (and to some more) Tj ETQq0 (	0 0 rgBT /C	)verlock 10 T

79	CONTINUATION ANALYSIS OF A PHASE/QUADRATURE ELECTRONIC OSCILLATOR. Journal of Circuits, Systems and Computers, 2010, 19, 773-785.	1.0	4
80	On the Approximate Solution of a Class of Large Discrete Quadratic Programming Problems by \$DeltaSigma\$ Modulation: The Case of Circulant Quadratic Forms. IEEE Transactions on Signal Processing, 2010, 58, 6126-6139.	3.2	17
81	HARMONIC ANALYSIS OF OSCILLATORS THROUGH STANDARD NUMERICAL CONTINUATION TOOLS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 4029-4037.	0.7	4
82	Practical Solution of Periodic Filtered Approximation as a Convex Quadratic Integer Program. , 2010, , 149-160.		3
83	On the synthesis of periodic signals by discrete pulse-trains and optimisation techniques. , 2009, , .		4
84	A modular supervised algorithm for vessel segmentation in red-free retinal images. Computers in Biology and Medicine, 2008, 38, 913-922.	3.9	41
85	Piecewise-linear approximation of the Hindmarsh-Rose neuron model. Journal of Physics: Conference		2
	Series, 2008, 138, 012011.	0.3	2
86	Series, 2008, 138, 012011. BIFURCATION ANALYSIS OF AN IMPACT MODEL FOR FOREST FIRE PREDICTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2275-2288.	0.3	6
86 87	BIFURCATION ANALYSIS OF AN IMPACT MODEL FOR FOREST FIRE PREDICTION. International Journal of		
	BIFURCATION ANALYSIS OF AN IMPACT MODEL FOR FOREST FIRE PREDICTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2275-2288.		6
87	<ul> <li>BIFURCATION ANALYSIS OF AN IMPACT MODEL FOR FOREST FIRE PREDICTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2275-2288.</li> <li>PWL approximation of the Hindmarsh-Rose neuron model in view of its circuit implementation. , 2007, ,</li> <li>On the complexity of periodic and nonperiodic behaviors of a hysteresis-based electronic oscillator.</li> </ul>	0.7	6

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#	Article	IF	CITATIONS
91	Complex links between codimension-2 bifurcations in an electronic oscillator based on hysteresis. Journal of Physics: Conference Series, 2006, 55, 12-27.	0.3	0
92	A cellular non-linear network for image fusion based on data regularization. International Journal of Circuit Theory and Applications, 2006, 34, 533-546.	1.3	3
93	Bifurcation analysis and its experimental validation for a hysteresis circuit oscillator. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 517-521.	2.3	8
94	BIFURCATION ANALYSIS OF A CIRCUIT-RELATED GENERALIZATION OF THE SHIPMAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2435-2452.	0.7	1
95	Structurally Stable PWL Approximation of Nonlinear Dynamical Systems Admitting Limit Cycles: An Example. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 2759-2766.	0.2	2
96	CLASSIFICATION OF CHAOTIC SEQUENCES WITH OPEN-LOOP ESTIMATOR — OPTIMAL DESIGN FOR NOISY ENVIRONMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3023-3043.	0.7	0
97	TWO-DIMENSIONAL BIFURCATION DIAGRAMS OF A CHAOTIC CIRCUIT BASED ON HYSTERESIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 43-69.	0.7	9
98	Discontinuities in a one-dimensional map describing a hysteretic chaotic circuit. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5253-5264.	0.6	10
99	Cellular non-linear networks for minimization of functionals. Part 1: Theoretical aspects. International Journal of Circuit Theory and Applications, 2001, 29, 151-167.	1.3	7
100	Cellular non-linear networks for minimization of functionals. Part 2: Examples. International Journal of Circuit Theory and Applications, 2001, 29, 169-184.	1.3	6
101	Basic bifurcation analysis of a hysteresis oscillator. International Journal of Circuit Theory and Applications, 2001, 29, 343-366.	1.3	9
102	BIFURCATION ANALYSIS OF A PWL CHAOTIC CIRCUIT BASED ON HYSTERESIS THROUGH A ONE-DIMENSIONAL MAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1911-1927.	0.7	7
103	RC op-amp implementation of hysteresis chaotic oscillator. Electronics Letters, 2001, 37, 209.	0.5	8
104	Dynamic behaviour of hysteresis chaotic circuit. Electronics Letters, 1999, 35, 1896.	0.5	5
105	Boundary cells in cellular circuits for the minimisation of continuous functionals. , 0, , .		0
106	2-D bifurcation diagram of an oscillator based on PWL hysteresis. , 0, , .		1
107	Optimal receiver for ergodic chaos shift keying. , 0, , .		1

108 Coexistence of attractors in an oscillator based on hysteresis. , 0, , .

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#	Article	IF	CITATIONS
109	Bifurcation analysis of a circuit-related piecewise-affine map. , 0, , .		Ο
110	SVDâ $\in$ "based approximations of bivariate functions. , 0, , .		0
111	A CNN for biomedical image processing. , 0, , .		2
112	Experimental validation of the bifurcation analysis of a hysteresis oscillator. , 0, , .		0
113	Bifurcation analysis of a second-order impact model for forest fire prediction through a 1D-map. , 0, , .		0