

Tomas Gotthans

List of Publications by Year in descending order

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45
papers

476
citations

1162367

8
h-index

996533

15
g-index

45
all docs

45
docs citations

45
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	New class of chaotic systems with circular equilibrium. <i>Nonlinear Dynamics</i> , 2015, 81, 1143-1149.	2.7	133
2	Simple Chaotic Flow with Circle and Square Equilibrium. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650137.	0.7	97
3	A chaotic system with rounded square equilibrium and with no-equilibrium. <i>Optik</i> , 2017, 130, 365-371.	1.4	35
4	Current-Mode Network Structures Dedicated for Simulation of Dynamical Systems with Plane Continuum of Equilibrium. <i>Journal of Circuits, Systems and Computers</i> , 2018, 27, 1830004.	1.0	30
5	On Feedback Sample Selection Methods Allowing Lightweight Digital Predistorter Adaptation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020, 67, 1976-1988.	3.5	21
6	New Chaotic Dynamical System with a Conic-Shaped Equilibrium Located on the Plane Structure. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 976.	1.3	19
7	Experimental evaluation of digital predistortion with FBMC and OFDM signals. , 2015, , .		14
8	Digital predistortion with advance/delay neural network and comparison with Volterra derived models. , 2014, , .		13
9	Optimal order estimation for modeling and predistortion of power amplifiers. , 2013, , .		11
10	Fracmemristor chaotic oscillator with multistable and antimonotonicity properties. <i>Journal of Advanced Research</i> , 2020, 25, 137-145.	4.4	10
11	Comparison of modeling techniques for power amplifiers. , 2013, , .		9
12	Nanoelectronic COupled problems solutions - nanoCOPS: modelling, multirate, model order reduction, uncertainty quantification, fast fault simulation. <i>Journal of Mathematics in Industry</i> , 2016, 7, .	0.7	8
13	Analytical method of fractional sample period synchronisation for digital predistortion systems. , 2017, , .		8
14	Comparison of hill-climbing and genetic algorithms for digital predistortion models sizing. , 2016, , .		7
15	Multi Grid Chaotic Attractors with Discrete Jumps. <i>Journal of Electrical Engineering</i> , 2013, 64, 118-122.	0.4	7
16	Electrothermal Simulation of Bonding Wire Degradation under Uncertain Geometries. , 2016, , .		6
17	Effect and adaptive correction of impedance mismatch between antenna and power amplifier on digital predistortion. , 2013, , .		4
18	Analysis and Synthesis of Chaotic Circuits using Memristor Properties. <i>Journal of Electrical Engineering</i> , 2014, 65, 129-136.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Experimental verification and comparison of polynomials and LUTs predistortion techniques. , 2015, , .		4
20	A Three-Dimensional Chaotic System with Square Equilibrium and No-Equilibrium. Studies in Computational Intelligence, 2017, , 613-635.	0.7	4
21	On the lower I/Q imbalance sensitivity using real-valued feedback of digital predistortion. , 2018, , .		3
22	Digital Calibration of 60 GHz Setup for Use in Power Amplifier Predistortion. , 2019, , .		3
23	Advanced parallel processing of Lyapunov exponents verified by practical circuit. , 2011, , .		2
24	Circuit realization of the inertia neuron. , 2011, , .		2
25	Novel circuit implementation of the Nóse-Hoover thermostated dynamic system. , 2011, , .		2
26	Influence of Filter-Bank RF transceiver chain imperfections on digital predistortion performance. , 2016, , .		2
27	On mutual information of measured 60 GHz wideband indoor MIMO channels: Time domain singular values. , 2017, , .		2
28	60 GHz Setup for RF Components Impairments Compensation. , 2018, , .		2
29	Temperature Compensation-Based Behavioral Modeling for Digital Predistortion of RF Power Amplifiers. , 2019, , .		2
30	Adjacent Channel Interference Cancellation in FDM Transmissions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5417-5428.	3.5	2
31	Analog implementation of gotthans-petrzela oscillator with virtual equilibria. , 2011, , .		1
32	Controlled Gain Current and Differential Voltage Amplifier and study of its application in simple adjustable oscillator. , 2013, , .		1
33	Dynamical Tangles in Third-Order Oscillator with Single Jump Function. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	1
34	Design of Passive Analog Electronic Circuits Using Hybrid Modified UMDA algorithm. Radioengineering, 2015, 24, 161-170.	0.3	1
35	Reduced-feedback MIMO digital predistortion of power amplifiers for 5G systems. , 2017, , .		1
36	Wireless device classification through transmitter imperfections â€” Evaluation of performance degradation due to the chip heating. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	Wideband digital predistortion with sub-Nyquist nonuniform sampling and reconstruction of feedback path. , 2017, , .		1
38	Digital predistorter with Hammerstein structure employing statistical adaptation of nonlinear component. , 2018, , .		1
39	Digitally-Compensated Wideband 60 GHz Test-Bed for Power Amplifier Predistortion Experiments. Sensors, 2021, 21, 1473.	2.1	1
40	Micro-Doppler Effect and Determination of Rotor Blades by Deep Neural Networks. , 2022, , .		1
41	FBMC filter bank optimization for non-linear power amplifiers. , 2016, , .		0
42	Influence of transceiver imperfections to digital pre-distortion linearization â€™ Application to 5G waveforms. , 2017, , .		0
43	On the sensitivity of digital predistortion to impairments of time-interleaved A/D converters. , 2018, , .		0
44	Optimizing Bias Point of High Efficiency Class-B GaN Power Amplifier for the Best Efficiency. , 2019, , .		0
45	Commercial UAV Jamming Possibilities. , 2022, , .		0