

# Telmo R Cunha

## List of Publications by Year in descending order

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49  
papers

912  
citations

567144

15  
h-index

552653

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g-index

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all docs

49  
docs citations

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times ranked

714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linearity and Efficiency in 5G Transmitters: New Techniques for Analyzing Efficiency, Linearity, and Linearization in a 5G Active Antenna Transmitter Context. IEEE Microwave Magazine, 2019, 20, 35-49.	0.7	112
2	The Linearity-Efficiency Compromise. IEEE Microwave Magazine, 2010, 11, 44-58.	0.7	90
3	Pruning the Volterra Series for Behavioral Modeling of Power Amplifiers Using Physical Knowledge. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 813-821.	2.9	88
4	Monitoring Sandy Shores Morphologies by DGPSâ€”A Practical Tool to Generate Digital Elevation Models. Journal of Coastal Research, 2008, 246, 1516-1528.	0.1	63
5	Power, Linearity, and Efficiency Prediction for MIMO Arrays With Antenna Coupling. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5284-5297.	2.9	46
6	Compensation of Long-Term Memory Effects on GaN HEMT-Based Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3379-3388.	2.9	44
7	Estimation of the nearshore bathymetry from high temporal resolution Sentinel-1A C-band SAR data - A case study. Remote Sensing of Environment, 2019, 223, 166-178.	4.6	44
8	Base-band derived volterra series for power amplifier modeling. , 2009, , .		33
9	Validation and Physical Interpretation of the Power-Amplifier Polar Volterra Model. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	2.9	28
10	A Physically Meaningful Neural Network Behavioral Model for Wireless Transmitters Exhibiting PMâ€”AM/PMâ€”PM Distortions. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3512-3521.	2.9	28
11	Hybrid Analog/Digital Linearization of GaN HEMT-Based Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 288-294.	2.9	28
12	A new and practical method to obtain grain size measurements in sandy shores based on digital image acquisition and processing. Sedimentary Geology, 2012, 282, 294-306.	1.0	23
13	A Multiple Time-Scale Power Amplifier Behavioral Model for Linearity and Efficiency Calculations. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 606-615.	2.9	23
14	A Precise and Efficient Methodology to Analyse the Shoreline Displacement Rate. Journal of Coastal Research, 2011, 272, 223-232.	0.1	19
15	Design of a Power-Amplifier Feed-Forward RF Model With Physical Knowledge Considerations. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2747-2756.	2.9	18
16	A Novel Two-Port Behavioral Model for I/O Buffer Overclocking Simulation. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1754-1763.	1.4	18
17	Polynomials and LUTs in PA Behavioral Modeling: A Fair Theoretical Comparison. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3274-3285.	2.9	15
18	Low-pass equivalent feedback topology for Power Amplifier modeling. , 2008, , .		14

#	ARTICLE	IF	CITATIONS
19	New land-based method for surveying sandy shores and extracting DEMs: the INSHORE system. Environmental Monitoring and Assessment, 2011, 182, 243-257.	1.3	14
20	Reduced-Order Parametric Behavioral Model for Digital Buffers/Drivers With Physical Support. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 2071-2079.	1.4	14
21	Novel Extraction of a Table-Based I-Q Behavioral Model for High-Speed Digital Buffers/Drivers. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 500-507.	1.4	12
22	Behavioral model for high-speed digital buffer/driver. , 2010, , .		11
23	The validation analysis of the INSHORE system—a precise and efficient coastal survey system. Environmental Monitoring and Assessment, 2011, 179, 589-604.	1.3	11
24	Characterization, Modeling, and Compensation of the Dynamic Self-Biasing Behavior of GaN HEMT-Based Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 529-540.	2.9	10
25	Accurate Linearization with Low-Complexity Models Using Cascaded Digital Predistortion Systems. IEEE Microwave Magazine, 2015, 16, 94-103.	0.7	8
26	A Review of Memory Effects in AlGaN/GaN HEMT Based RF PAs. , 2021, , .		8
27	General Nonlinear Feed-forward RF Model for Power Amplifiers. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	7
28	Validation by Measurements of an IC Modeling Approach for SiP Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1214-1225.	1.4	7
29	Behavioral Modeling of IC Memories From Measured Data. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3471-3479.	2.4	7
30	A mixed-domain behavioral model's extraction for digital I/O buffers. , 2012, , .		7
31	A Multiple-Time-Scale Analog Circuit for the Compensation of Long-Term Memory Effects in GaN HEMT-Based Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3709-3723.	2.9	7
32	Rational function-based model with memory for power amplifier behavioral modeling. , 2011, , .		6
33	A new power amplifier behavioral model for simultaneous linearity and efficiency calculations. , 2012, , .		6
34	Characterization and modeling of the power delivery networks of memory chips. , 2009, , .		5
35	A new predistorter model based on power amplifier physical knowledge. , 2010, , .		5
36	Efficient table-based I-Q behavioral model for high-speed digital buffers/drivers. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
37	Higher locality non-linear basis functions of Volterra series based models to improve extraction conditioning. , 2014, , .		5
38	Compensation of the Pulse-to-Pulse Instability of GaN HEMT-Based Power Amplifiers. , 2019, , .		5
39	Short and Long-Term Memory Modelling via Generic FIR Filtering. , 2006, , .		4
40	A polar-oriented Volterra model for power amplifier characterization. , 2010, , .		3
41	Modeling PA linearity and efficiency in MIMO transmitters. , 2017, , .		3
42	A Transient Two-Tone RF Method for the Characterization of Electron Trapping Capture and Emission Dynamics in GaN HEMTs. , 2020, , .		3
43	PM-AM/PM-PM distortions in wireless transmitter behavioral modeling. , 2011, , .		2
44	Magnetless RF Isolator Design Using Grounded Transistors. , 2018, , .		2
45	Using spline basis functions in Volterra series based models. , 2014, , .		1
46	MOCHA, MOdelling and CHAracterization for SiP $\hat{\Delta}$ Signal and Power Integrity Analysis. , 2008, , .		0
47	Deriving a power amplifier linearizer from a physics-based system-level model. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 321-332.	0.8	0
48	Measurement Setup for RF/Digital Buffers Characterization. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1892-1899.	2.4	0
49	Compensation of Power Amplifier Long-Term Memory Behavior for Pulsed Radar Applications. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5249-5256.	2.9	0