Diego Cesar Mateo PeÃ±a

List of Publications by Year
in descending order

41 papers	976 citations	687363 13 h-index	552781 26 g-index
41 all docs	41 docs citations	41 times ranked	953 citing authors

#	Article	IF	Citations
1	Fundamentals and applications of photo-thermal catalysis. Chemical Society Reviews, 2021, 50, 2173-2210.	38.1	339
2	BPF-Based Thermal Sensor Circuit for On-Chip Testing of RF Circuits. Sensors, 2021, 21, 805.	3.8	2
3	Aging in CMOS RF Linear Power Amplifiers: An Experimental Study. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1453-1463.	4.6	11
4	An Efficient Metalâ€“Organic Frameworkâ€Derived Nickel Catalyst for the Light Driven Methanation of CO₂. Angewandte Chemie - International Edition, 2021, 60, 26476-26482.	13.8	45
5	An Efficient Metalâ€“Organic Frameworkâ€Derived Nickel Catalyst for the Light Driven Methanation of CO₂. Angewandte Chemie, 2021, 133, 26680-26686.	2.0	4
6	Experimental Monitoring of Aging in CMOS RF Linear Power Amplifiers: Correlation Between Device and Circuit Degradation. , 2020, , .		3
7	Titanium-Perovskite-Supported RuO2 Nanoparticles for Photocatalytic CO2 Methanation. Joule, 2019, 3, 1949-1962.	24.0	102
8	A Heterogeneous Carbon Nitrideâ€“Nickel Photocatalyst for Efficient Lowâ€Temperature CO₂ Methanation. Advanced Energy Materials, 2019, 9, 1902738.	19.5	58
9	Aging in CMOS RF Linear Power Amplifiers: Experimental Comparison and Modeling. , 2019, , .		6
10	Differential Temperature Sensors: Review of Applications in the Test and Characterization of Circuits, Usage and Design Methodology. Sensors, 2019, 19, 4815.	3.8	7
11	A Versatile CMOS Transistor Array IC for the Statistical Characterization of Time-Zero Variability, RTN, BTI, and HCI. IEEE Journal of Solid-State Circuits, 2019, 54, 476-488.	5.4	29
12	The mechanism of photocatalytic CO2 reduction by graphene-supported Cu2O probed by sacrificial electron donors. Photochemical and Photobiological Sciences, 2018, 17, 829-834.	2.9	19
13	Analysis of Body Bias and RTN-Induced Frequency Shift of Low Voltage Ring Oscillators in FDSOI Technology. , 2018, , .		1
14	Synergism of Au and Ru Nanoparticles in Lowâ€Temperature Photoassisted CO₂ Methanation. Chemistry - A European Journal, 2018, 24, 18436-18443.	3.3	23
15	Photoassisted methanation using Cu₂O nanoparticles supported on graphene as a photocatalyst. Energy and Environmental Science, 2017, 10, 2392-2400.	30.8	83
16	Oriented 2.0.0 Cu2O nanoplatelets supported on few-layers graphene as efficient visible light photocatalyst for overall water splitting. Applied Catalysis B: Environmental, 2017, 201, 582-590.	20.2	63
17	Electro-thermal characterization of a differential temperature sensor in a 65nm CMOS IC: Applications to gain monitoring in RF amplifiers. Microelectronics Journal, 2014, 45, 484-490.	2.0	3
18	Efficiency determination of RF linear power amplifiers by steady-state temperature monitoring using built-in sensors. Sensors and Actuators A: Physical, 2013, 192, 49-57.	4.1	19

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19	Inductor shielding strategies to protect mmW LC-VCOs from high frequency substrate noise. Microelectronics Journal, 2013, 44, 405-413.	2.0	0
20	DC temperature measurements for power gain monitoring in RF power amplifiers. , 2012, , .		11
21	On the Use of Static Temperature Measurements as Process Variation Observable. Journal of Electronic Testing: Theory and Applications (JETTA), 2012, 28, 685-695.	1.2	6
22	On line monitoring of RF power amplifiers with embedded temperature sensors. , 2012, , .		2
23	Electro-thermal coupling analysis methodology for RF circuits. Microelectronics Journal, 2012, 43, 633-641.	2.0	11
24	A small-area inductorless configurable wideband LNA with high dynamic range. Microelectronics Journal, 2012, 43, 198-204.	2.0	1
25	A High Dynamic-Range RF Programmable-Gain Front End for G.hn RF-Coax in 65-nm CMOS. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3243-3253.	4.6	4
26	A 16-kV HBM RF ESD Protection Codesign for a 1-mW CMOS Direct Conversion Receiver Operating in the 2.4-GHz ISM Band. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2318-2330.	4.6	7
27	Survey of Robustness Enhancement Techniques for Wireless Systems-on-a-Chip and Study of Temperature as Observable for Process Variations. Journal of Electronic Testing: Theory and Applications (JETTA), 2011, 27, 225-240.	1.2	11
28	Design of a 2.5â€GHZ QVCO robust against high frequency substrate noise. Microwave and Optical Technology Letters, 2011, 53, 1632-1637.	1.4	2
29	Non-invasive monitoring of CMOS power amplifiers operating at RF and mmW Frequencies using an on-chip thermal sensor. , 2011, , .		7
30	Electrothermal Design Procedure to Observe RF Circuit Power and Linearity Characteristics With a Homodyne Differential Temperature Sensor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 458-469.	5.4	30
31	Strategies for built-in characterization testing and performance monitoring of analog RF circuits with temperature measurements. Measurement Science and Technology, 2010, 21, 075104.	2.6	26
32	Behavioural Modelling of DLLs for Fast Simulation and Optimisation of Jitter and Power Consumption. , 2010, , .		2
33	Thermal coupling in ICs: Applications to the test and characterization of analogue and RF circuits. , 2010, , .		1
34	Effect of high frequency substrate noise on LC-VCOs. , 2010, , .		3
35	A 75 pJ/bit all-digital quadrature coherent IR-UWB transceiver in 0.18 Âµm CMOS. , 2010, , .		3
36	Differential Temperature Sensors Fully Compatible With a 0.35-mum CMOS Process. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 618-626.	1.3	17

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37	Low Noise Amplifiers for Low-Power Impulse-Radio Ultra Wide-Band Receivers. , 2006, , .		3
38	A Low-Power Template Generator for Coherent Impulse-Radio Ultra Wide-Band Receivers. , 2006, , .		7
39	An investigation on the relation between digital circuitry characteristics and power supply noise spectrum in mixed-signal CMOS integrated circuits. Microelectronics Journal, 2005, 36, 77-84.	2.0	3
40	Evaluation of package and technology effects on substrate-crosstalk isolation in CMOS RFIC. , 2003, , .		2
41	Advanced failure detection techniques in deep submicron CMOS integrated circuits. Microelectronics Reliability, 1999, 39, 909-918.	1.7	0