# Diego Cesar Mateo PeÃ±a

List of Publications by Year
in descending order



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|---|---|---|---|
| 41 papers | 976 citations | 687363<br>13 h-index | 552781<br>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 | Titanium-Perovskite-Supported RuO2 Nanoparticles for Photocatalytic CO2 Methanation. Joule, 2019, 3, 1949-1962. | 24.0 | 102 |
| 3 | Photoassisted methanation using Cu<sub>2</sub>O nanoparticles supported on graphene as a photocatalyst. Energy and Environmental Science, 2017, 10, 2392-2400. | 30.8 | 83 |
| 4 | 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 |
| 5 | A Heterogeneous Carbon Nitrideâ€“Nickel Photocatalyst for Efficient Lowâ€Temperature CO<sub>2</sub> Methanation. Advanced Energy Materials, 2019, 9, 1902738. | 19.5 | 58 |
| 6 | An Efficient Metalâ€“Organic Frameworkâ€Derived Nickel Catalyst for the Light Driven Methanation of CO<sub>2</sub>. Angewandte Chemie - International Edition, 2021, 60, 26476-26482. | 13.8 | 45 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Synergism of Au and Ru Nanoparticles in Lowâ€Temperature Photoassisted CO<sub>2</sub> Methanation. Chemistry - A European Journal, 2018, 24, 18436-18443. | 3.3 | 23 |
| 11 | 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 |
| 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 | Differential Temperature Sensors Fully Compatible With a 0.35-$mu$m CMOS Process. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 618-626. | 1.3 | 17 |
| 14 | 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 |
| 15 | DC temperature measurements for power gain monitoring in RF power amplifiers. , 2012, , . | | 11 |
| 16 | Electro-thermal coupling analysis methodology for RF circuits. Microelectronics Journal, 2012, 43, 633-641. | 2.0 | 11 |
| 17 | Aging in CMOS RF Linear Power Amplifiers: An Experimental Study. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1453-1463. | 4.6 | 11 |
| 18 | A Low-Power Template Generator for Coherent Impulse-Radio Ultra Wide-Band Receivers. , 2006, , . | | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Non-invasive monitoring of CMOS power amplifiers operating at RF and mmW Frequencies using an on-chip thermal sensor. , 2011, , . | | 7 |
| 21 | Differential Temperature Sensors: Review of Applications in the Test and Characterization of Circuits, Usage and Design Methodology. Sensors, 2019, 19, 4815. | 3.8 | 7 |
| 22 | 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 |
| 23 | Aging in CMOS RF Linear Power Amplifiers: Experimental Comparison and Modeling. , 2019, , . | | 6 |
| 24 | An Efficient Metalâ€“Organic Frameworkâ€Derived Nickel Catalyst for the Light Driven Methanation of CO<sub>2</sub>. Angewandte Chemie, 2021, 133, 26680-26686. | 2.0 | 4 |
| 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 | 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 |
| 27 | Low Noise Amplifiers for Low-Power Impulse-Radio Ultra Wide-Band Receivers. , 2006, , . | | 3 |
| 28 | Effect of high frequency substrate noise on LC-VCOs. , 2010, , . | | 3 |
| 29 | A 75 pJ/bit all-digital quadrature coherent IR-UWB transceiver in 0.18 Âµm CMOS. , 2010, , . | | 3 |
| 30 | 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 |
| 31 | Experimental Monitoring of Aging in CMOS RF Linear Power Amplifiers: Correlation Between Device and Circuit Degradation. , 2020, , . | | 3 |
| 32 | Evaluation of package and technology effects on substrate-crosstalk isolation in CMOS RFIC. , 2003, , . | | 2 |
| 33 | Behavioural Modelling of DLLs for Fast Simulation and Optimisation of Jitter and Power Consumption. , 2010, , . | | 2 |
| 34 | 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 |
| 35 | On line monitoring of RF power amplifiers with embedded temperature sensors. , 2012, , . | | 2 |
| 36 | BPF-Based Thermal Sensor Circuit for On-Chip Testing of RF Circuits. Sensors, 2021, 21, 805. | 3.8 | 2 |

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|---|---|---|---|
| 37 | Thermal coupling in ICs: Applications to the test and characterization of analogue and RF circuits. , 2010, , . | | 1 |
| 38 | A small-area inductorless configurable wideband LNA with high dynamic range. Microelectronics Journal, 2012, 43, 198-204. | 2.0 | 1 |
| 39 | Analysis of Body Bias and RTN-Induced Frequency Shift of Low Voltage Ring Oscillators in FDSOI Technology. , 2018, , . | | 1 |
| 40 | Advanced failure detection techniques in deep submicron CMOS integrated circuits. Microelectronics Reliability, 1999, 39, 909-918. | 1.7 | 0 |
| 41 | Inductor shielding strategies to protect mmW LC-VCOs from high frequency substrate noise. Microelectronics Journal, 2013, 44, 405-413. | 2.0 | 0 |