

# Gloria Huertas

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

368  
citations

840776

11  
h-index

888059

17  
g-index

34  
all docs

34  
docs citations

34  
times ranked

250  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A Plethysmography Capacitive Sensor for Real-Time Monitoring of Volume Changes in Acute Heart Failure. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12. | 4.7 | 6         |
| 2  | Electrical Modeling of the Growth and Differentiation of Skeletal Myoblasts Cell Cultures for Tissue Engineering. Sensors, 2020, 20, 3152.                                   | 3.8 | 6         |
| 3  | Designing bioimpedance based sensors for cell cultures test. , 2020, , .   |     | 0         |
| 4  | A plethysmographic sensor for monitoring volume changes in cardiovascular pathologies. , 2019, , .   |     | 1         |
| 5  | Data-Analytics Modeling of Electrical Impedance Measurements for Cell Culture Monitoring. Sensors, 2019, 19, 4639.   | 3.8 | 8         |
| 6  | An Empirical-Mathematical Approach for Calibration and Fitting Cell-Electrode Electrical Models in Bioimpedance Tests. Sensors, 2018, 18, 2354.                              | 3.8 | 12        |
| 7  | Remote Cell Growth Sensing Using Self-Sustained Bio-Oscillations. Sensors, 2018, 18, 2550.   | 3.8 | 4         |
| 8  | Sensing Cell-Culture Assays with Low-Cost Circuitry. Scientific Reports, 2018, 8, 8841.  | 3.3 | 35        |
| 9  | A tracking algorithm for cell motility assays in CMOS systems. , 2017, 2017, 837-840.  |     | 0         |
| 10 | Remote Sensing of Cell-Culture Assays. , 2017, , .   |     | 3         |
| 11 | Real-Time Electrical Bioimpedance Characterization of Neointimal Tissue for Stent Applications. Sensors, 2017, 17, 1737.   | 3.8 | 13        |
| 12 | A CMOS Tracking System Approach for Cell Motility Assays. , 2017, , .  |     | 0         |
| 13 | Monitoring tissue evolution on electrodes with bio-impedance test. , 2016, , .   |     | 0         |
| 14 | Design of sensory systems using the platform Arduino by undergraduate Physics students. , 2016, , .  |     | 4         |
| 15 | Cell-culture measurements using voltage oscillations. , 2016, , .  |     | 1         |
| 16 | Towards Bio-impedance Based Labs: A Review. J of Electrical Engineering, 2016, 4, .  | 0.1 | 3         |
| 17 | From voltage oscillations to tissue-impedance measurements. , 2015, , .  |     | 0         |
| 18 | Towards Bio-Impedance based labs: A review. , 2015, , .  |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | The Bio-Oscillator: A Circuit for Cell-Culture Assays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 164-168.   | 3.0 | 23        |
| 20 | Oscillation-Based Test applied to cell culture monitoring. , 2013, , .  |     | 2         |
| 21 | (Some) Open Problems to Incorporate BIST in Complex Heterogeneous Integrated Systems. , 2010, , .   |     | 5         |
| 22 | Oscillation-Based Test in Data Converters: On-Line Monitoring. , 2008, , .  |     | 3         |
| 23 | Total ionizing dose effects in switched-capacitor filters using oscillation-based test. , 2007, , .   |     | 1         |
| 24 | Total Ionizing Dose Effects in Switched-Capacitor Filters using Oscillation-Based Test. , 2007, , .   |     | 0         |
| 25 | Measuring SET effects in a CMOS operational amplifier using a built-in detector. , 2007, , .  |     | 8         |
| 26 | Test of switched-capacitor ladder filters using OBT. Microelectronics Journal, 2005, 36, 1073-1079.   | 2.0 | 21        |
| 27 | Sine-Wave Signal Characterization Using Square-Wave and ??-Modulation: Application to Mixed-Signal BIST. Journal of Electronic Testing: Theory and Applications (JETTA), 2005, 21, 221-232. | 1.2 | 14        |
| 28 | Oscillation-based test in bandpass oversampled A/D converters. Microelectronics Journal, 2003, 34, 927-936.   | 2.0 | 21        |
| 29 | LP-LV high-performance monolithic DTMF receiver with on-chip test facilities. , 2003, , .   |     | 2         |
| 30 | Practical oscillation-based test of integrated filters. IEEE Design and Test of Computers, 2002, 19, 64-72.   | 1.0 | 67        |
| 31 | Testing mixed-signal cores: a practical oscillation-based test in an analog macrocell. IEEE Design and Test of Computers, 2002, 19, 73-82.  | 1.0 | 57        |
| 32 | Oscillation-based test in oversampled $\hat{\Sigma}^m$ modulators. Microelectronics Journal, 2002, 33, 799-806.   | 2.0 | 19        |
| 33 | A Simple and Secure Start-Up Circuitry for Oscillation-Based-Test Application. Analog Integrated Circuits and Signal Processing, 2002, 32, 187-190.   | 1.4 | 8         |
| 34 | On-Chip Evaluation of Oscillation-Based-Test Output Signals for Switched-Capacitor Circuits. Analog Integrated Circuits and Signal Processing, 2002, 33, 201-211.                           | 1.4 | 20        |