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1076 IEEE SENSORS JOURNAL, VOL. 10, NO. 6, JUNE 2010 Fig. 1. In active sensing, the system adapts its sensing parameters based on its belief about the world (e.g., class membership of a stimulus).

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Fig. 9. (a) Calibration of a sun sensor in the INTA Spasolab laboratory using a solar simulator (AM0 spectrum 1366 of irradiance). (b) A detail of the two-axis rotary motorized table instrument.

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Passive Wireless Monitoring of Wafer Cleanliness During Rinsing of Semiconductor Wafers Xu Zhang, Jun Yan, Bert Vermeire, Member, IEEE, Farhang Shadman, and Junseok Chae

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In this paper, a novel algebraic closed-form method is proposed to estimate the position and velocity of a moving target in distributed multiple-input multiple-output radar systems with erroneous sensor locations by utilizing time delay and Doppler shift measurements. Unlike the existing methods that introduce nuisance parameters to build the pseudo-linear equations, the proposed method uses ...

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Magnetolectric cantilevers consisting of strain-coupled magnetostrictive and piezoelectric (PE) layers are applicable to magnetic-field sensing. For the first bending mode, the magnetic field-induced...

Signal-to-noise ratio enhanced electrode configurations

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Wearable Sensor System for Detecting Gait Parameters of Abnormal Gaits: A Feasibility Study Guangyi Li, Tao Liu, Senior Member, IEEE, and Jingang Yi, Senior Member, IEEE

Abstract—The goal of this paper is to evaluate the feasibility of a wearable, low-cost optical, inertial, and force sensor suite

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High Precision Electrohydrodynamic Printing of Polymer Onto Microcantilever Sensors James H. Pikul, Phil Graf, Sandipan Mishra, Member, IEEE, Kira Barton, Yong-Kwan Kim, John A.

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Rogers, Fellow, IEEE, Andrew Alleyne, Placid M. Ferreira, and William P. King Abstract—We report electrohydrodynamic jet printing to de-

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Dynamic Multispectral Imaging Using the Vertical Overflow Drain Structure Erez Tadmor, Amir Nevet, Giora Yahav, Alexander Fish, Member, IEEE, and David Cohen Abstract—Multispectral imaging enables discrimination of spectra beyond the 3-D spectral space of human vision.

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We use a 10.1% efficient perovskite PV module generating an output voltage of 4.3 V with an active area of 1.06 cm² under 1 sun illumination, with AM 1.5G spectrum, to power a commercial off-the-shelf RFID IC, requiring 10 - 45 μ W of power. Having an on-board energy harvester provides extra-energy to boost the range of the sensor (5x) in addition to providing energy to carry out high-volume sensor measurements (hundreds of measurements per min).

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Novel Highly Integrated SPM System for Single Molecule Studies
Fan Chen, Jianfeng Zhou, Guojun Chen, and Bingqian Xu
Abstract—The design and performance of a highly integrated scanning-probe microscopy for single molecule studies is presented.

IEEE SENSORS JOURNAL, VOL. 10, NO. 3, MARCH 2010 485 A ...

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Publication: 13 May 2020 . ISSN Information: Print ISSN:
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Accession Number: 19710109 ...

Microdroplet-Based Organic Vapour Sensor on a Disposable ...

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Fig. 5. Comsol model results for the silicon substrate RTD array. Solid lines show the temperature at the center of the metal resistors under heating from reservoirs of water at 45 °C, 55 °C, 65 °C, and 75 °C, which are represented by the dashed lines. The unit of time on the x-axis ...

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IEEE Control system letter (L-CSS), accepted, June 2020. Change detection of RSSI fingerprint pattern for indoor positioning system; Jaehyun Yoo, IEEE Sensors Journal, vol. 20, no. 5, March 2020. Indoor Localization Based on Wi-Fi Received Signal Strength Indicators: Feature Extraction, Mobile Fingerprinting, and Trajectory Learning

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Fig. 3. Process flow (a) anisotropic etching followed by anodic bonding, (b) LbL coating till 10 bilayers (BLs) using SNPs, (c) two BLs shown inside channel, and (d) columns after calcination (500 °C) and silane coupling. (Fig. 3c). Subsequently, the bonded wafer is diced to expose

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