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PROF. DR. MOHD NIZAR HAMIDON

Director, Institute of Nanoscience and Nanotechnology

Research Associate, Functional Nanotechnology Devices Laboratory

Expertise: Electron Devices, Wireless System, Nanotechnology,

Sensor Technology

Email: mnh@upm.edu.my Phone: +603.9769.7533/6309

Google Scholar: Link

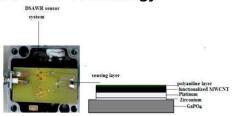
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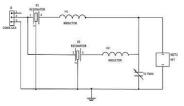


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RESEARCH HIGHLIGHTS

1. Sensor Technology





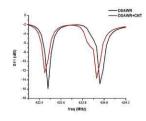
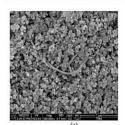
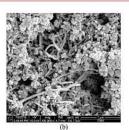


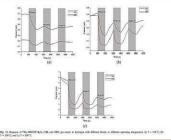
Figure 3. Schematic of DSAWR system with a resistor connected in parallel.

Figure 6. Plot of S11versus frequency.

Yunusa, Z., Hamidon, M. N., Ismail, A., Isa, M. M., Yaacob, M. H., Rahmanian, S., . . . Shabaneh, A. A. "Development of a Hydrogen Gas Sensor using a Double SAW Resonator System at Room Temperature," *Sensors (Switzerland)*, *15*(3), pp. 4749-4765, 2015







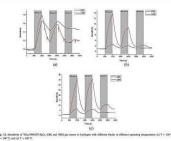
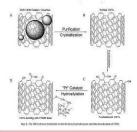
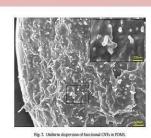


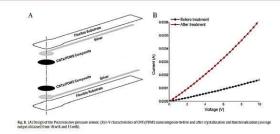
Fig. 2. FESEM image of $TiO_2/MWCNT/B_2O_3$ thick film annealed at 500 °C for (a) OBL and (b) OBE.

S.A. Mohd Chachuli, M.N. Hamidon, M.S. Mamat, M. Ertugrul and N.H Abdullah,

"Response of TiO2 MWCNT B2O3 Gas Sensor to Hydrogen using Different Organic Binder," Materials Science in Semiconductor Processing, Vol. 99, pp 140-14, 2019







S. Azahari, H. Tanaka, M.N. Hamidon, A.T. Yousefi, A. Khajeh, K. Nicodemus and M.M. Bigdeli, "Fabrication of Piezoresistive Based Pressure Sensor via Purified and Functionalized CNTS/PDMS Nanocomposite: toward Development of Haptic Sensors," Sensors and Actuators A, Vol. 266, pp. 158-165, 2017

2. Carbon-based Ultraconductor

Ultra-conductor is defined as an electrical conductors, which have certain properties similar to present-day superconductors and can considered as a novel state of matter which using carbon-based material as the important element. Thick film technology is implemented of which a highly conductive CNT paste is screen printed on a substrate based on design such as electrodes or circuit connectors.

This work is supported by Ministry of Higher Education (MOHE) LRGS NanoMITe fund LRGS/2015/UKM-UPM/NanoMITe/04/02.

