Value Added Abstract

Experimental and Characterization Studies on Micro Direct Methanol Fuel Cell

A micro DMFC of 1cm² active area with selective sensor materials to Biography sense methanol for redox, has been developed. Among different Pt Prof.Muthuraja obtained his Masters degree in Technology (Sensor alloys, Pt-Sn/C was able to produce high current density and systems) from VIT in 2005 and Masters degree in Physics from Madurai repeatability. MEA of anode catalyst Pt-Sn/C was prepared with nafion Kamaraj University in 2001. He has successfully submitted his PhD maximum ability to detect the trace levels of methanol in ppm has been His major area of interest including Nanomaterials and nanosensors, gas analyzed. A compact sensor set up has also been made and the sensors and fuelcells. characterization studies were carried out. The acceptable value of current density was derived by the cell and the results are able to fulfill the needs of DMFC technology for the practical applications.

as active membrane and Pt black as cathode catalyst. The sensor's dissertation on micro fuelcell development and serving for VIT since 2008.

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