

DETECTION OF CANCER BY NANO SENSOR

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Goal

To develop nano particle based gas sensor to detect the volatile organic compounds (VOC) present in exhaled breadth of a cancer patient.

Results

- ZnO nano particles is fabricated by Chemical Precipitation method.
- Characterization is done by XRD and SEM images.
- Particle size is found to be 1.14 nm.
- Film thickness is 11 μm .
- Optimum temperature to detect the gases is found out.
- Sensor is calibrated with gas chromatograph.

On going work – Detection of NO (nitric oxide) present in the cancerous tissues

