



Contribution ID: 461

Type: Poster Presentation

Aqueous chemically grown ZnO nanosheets for gas sensing applications

A facile aqueous chemical growth method was used to synthesize layered zinc hydroxide nitrate (ZHN) and subsequent thermal treatment of ZHN resulted in zinc oxide (ZnO) nanosheets. The SEM images of ZHN and ZnO show that the morphology of the two remain similar even after calcination at 400°C. The elemental composition of ZHN and ZnO was confirmed using EDS and the functional groups present in both nanostructures were examined by FTIR.

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Session Classification: Poster Session

Track Classification: Track A - Physics of Condensed Matter and Materials