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9. Effect of Fe modification on H₂S sensing properties of rheotaxially grown and thermally oxidized SnO₂ thin films, *Materials Chemistry and Physics* 156 (2015) 227-237, Niranjana S. Ramgir, N. Datta, Suresh Kumar, S. Kailasaganapathi, U.V. Patil, N. Karmakar, M. Kaur, A.K. Debnath, D.C. Kothari, D.K. Aswal, S.K. Gupta.
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International Conference 02

1. OL 27 Effect of Sb^{3+} Doping on the Photoreduction Performance of $Cd_{1-x}Hg_xS$ ($x=0.08$) based Electrochemical cells, International conference on Advanced Materials and Nanotechnology for sustainable Development October 21st -23rd 2011, S.A. Lendave, S.T. Mane, P.C. Pingale, R.V. Suryawanshi, N.S. Karmakar, D.C. Kothari and L.P. Deshmukh.
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Scientific experience

As a Scientific Assistant was in charge of installation, maintenance and operation of the sophisticated equipment's at the Nanocenter and giving hands-on experience to students and researchers on these equipment's as mentioned below: -

Scanning Electron Microscope from FEI Quanta 250 and Inspect F 50.
Transmission Electron Microscope from FEI Tecnai™ G2 F30.
Dual Beam Scanning Electron Microscope from FEI Versa 3D.
Scanning Probe Microscope, from Di Innova, Bruker.
Surface Profilometer, Dektak 150, from Bruker.
Atomic Force Microscope, Caliber, from Bruker.
Nano Hardness Tester, Ultra Nano hardness Tester, from CSM Instruments.
FT-IR Spectrophotometer with Imaging, from Varian, 620-IR and 660-IR.
Gas sensors Polymer nanocomposite

Papers Presented in Conferences

Area of Specialization

Subjects Taught

Engineering Physics

Other Achievements and Responsibilities:

Awarded “Bruker Nano Surfaces Scholarship award” of One lakh rupees in the year 2013

- Particle Size Analyser and zeta potential measurement, from Microtrac.
- Fluorescence Spectrophotometer from Varian, Cary Eclipse.
- UV-Vis-NIR Spectrophotometer from Varian, Cary 5000.
- Nano Tribometer from CSM Instruments.
- Raman inVia Microscope from Renishaw.

Administrative experience

- Coordinating the purchase of high end fabrication and characterization equipment worth Rs 60 crores with the University of Mumbai authorities and the vendors. Having profound knowledge of tenders, letter of credits, quotations, customs clearance and newspaper advertisement as per government purchase procedure.
- Coordinated with architects, engineers, vendors and contractors for setting up India first dedicated Carbon dating facility 1.0 MV Tandetron for Accelerator Mass Spectrometers labs in Department of Physics, University of Mumbai
- Member, NAAC Committee (Criteria 1 & Criteria 2):
- Member, Library Committee:
- Member, First Year Engineering Admission Committee

Institute/Department
Responsibility handled: