

Multifunctional ZnO Nanostructures

SIGNIFICANT FINDINGS:

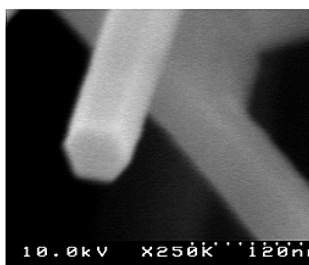
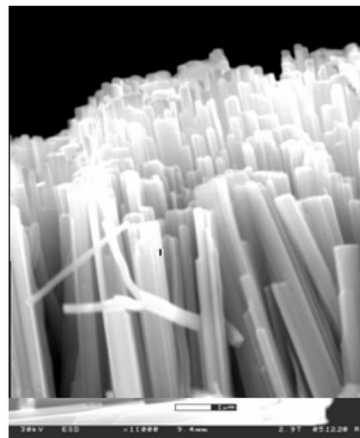
1. Choose materials with functional characteristics ranging from electrical, optical, mechanical, thermal and biochemical sensing, such as:

- ZnO nanowires/ nanorods 800-900°C
- Carbon nanotubes (CNTs)
- GaN, AlN, AlGaIn nanowires metallic nanowires (e.g. Ag, Au, Pt)

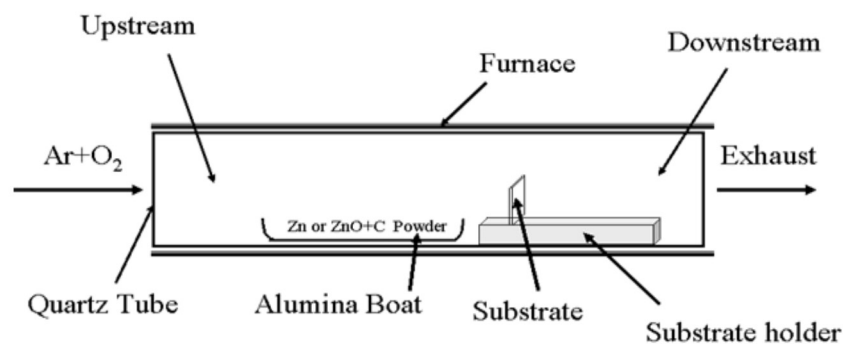
2. Enable sequential growth of disparate structures

AUTHOR(S):

R.D. Vispute
Blue Wave Semiconductors

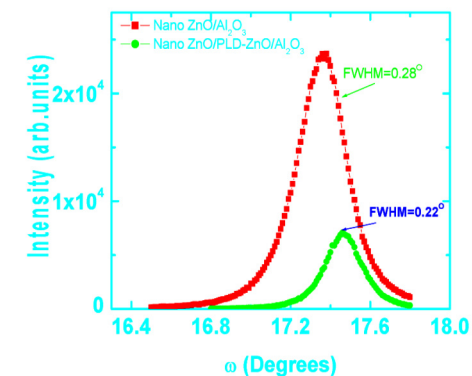


32 NM ~100 UNIT CELLS

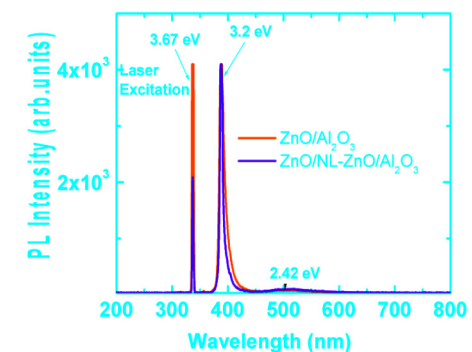


PROJECT FINDINGS (Abridged)

Howard University | National Nanotechnology Infrastructure Network (NNIN)



X-RAY DIFFRACTION CHARACTERIZATION



ZNO FORMATION PHOTOLUMINESCENCE