

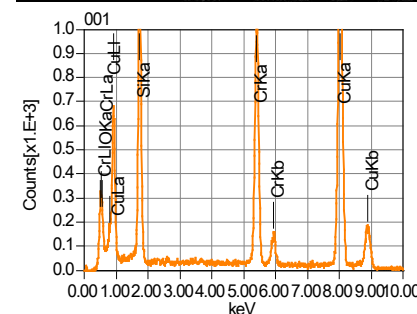
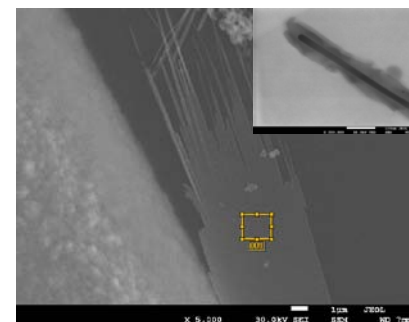


Janice N. Hernández Díaz
Department of Chemistry
Undergrad student
Dr. Luis Fonseca

Fabrication of Transition Metal Silicide and Oxides Nano and Micro Structures for Thermal Sensors

IRG-3

Transition metals are known for their high conductivity and in this investigation the objective is to synthesize novel micro and nano structures of chromium silicide to study their thermal conductivity. The nano-rods and tubes were grown on a n-type Si wafer. We used the technique Chemical Vapor Transport to synthesize the nanostructures. We maintained the temperature near 1000°C for 20 minutes. The characterization of the nano- and microtubes included: HRTEM spectrum and mapping, electron diffraction, X-ray fluorescence spectroscopy.



a) IMAGE OF SAMPLE: SEM MODE.
SAMPLE SHOWS A NANOBELT FROM
WICH RODS GROW b) EDS SPECTRA

Contact information

Lab ext. 4769
janice_28_4@hotmail.com

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